

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:20:30 ; Search time 88.4866 Seconds
(without alignments)
869.796 Million cell updates/sec

Title: US-09-816-653A-2
Perfect score: 1061
Sequence: 1 MSQPAGNQTPGATEDYSYG.....WAHLGVQVWQRAECPQVPKI 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1059	99.8	199	6	ABb99462 Amino aci
2	1048	98.8	487	5	AAO17374 Human ret
3	1048	98.8	666	6	ABU82087 Novel hum
4	1048	98.8	667	4	AAU04557 Human Str
5	1048	98.8	667	4	AAb88572 Human hyd
6	1048	98.8	667	5	AAU83631 Human PRO
7	1048	98.8	667	5	AAU78575 Human Str
8	1048	98.8	667	5	AAO19413 Human mol
9	1048	98.8	667	6	ADA54816 Human pro
10	1048	98.8	667	6	ABU80778 Human PRO
11	1048	98.8	667	6	ABO33744 Novel hum
12	1048	98.8	667	6	ABJ72267 Human PRO
13	1048	98.8	667	6	ABJ72395 Human PRO
14	1048	98.8	667	6	ABO34290 Human sec
15	1048	98.8	667	7	ABJ72097 Human mem
16	1048	98.8	667	7	ADB83570 Novel hum
17	1048	98.8	667	7	ADB80676 Novel hum
18	1048	98.8	667	7	ADB73217 Novel hum
19	1048	98.8	667	7	ADB78299 Novel hum
20	1048	98.8	667	7	ADB84947 Human PRO
21	1048	98.8	667	7	ADB78053 Novel hum
22	1048	98.8	667	7	ADB87119 Human PRO
23	1048	98.8	667	7	ADB84701 Human PRO
24	1048	98.8	667	7	ADB83816 Novel hum
25	1048	98.8	667	7	ADB72971 Novel hum

26	1048	98.8	667	7	ADC36809	Adc36809 Human PRO
27	1048	98.8	667	7	ADC21799	Adc21799 Human PRO
28	1048	98.8	667	7	ADC49830	Adc49830 Novel hum
29	1048	98.8	667	7	ADC49029	Adc49029 Novel hum
30	1048	98.8	667	7	ADC49546	Adc49546 Novel hum
31	1048	98.8	667	7	ADC47407	Adc47407 Novel hum
32	1048	98.8	667	7	ADC47152	Adc47152 Novel hum
33	1048	98.8	667	7	ADC78027	Adc78027 Novel hum
34	1048	98.8	667	7	ADD06262	Add06262 Novel hum
35	1048	98.8	667	7	ADC77781	Adc77781 Novel hum
36	1048	98.8	667	7	ADD50744	Add50744 Novel hum
37	1048	98.8	667	7	ADD50990	Add50990 Novel hum
38	1048	98.8	667	7	ADD50471	Add50471 Human PRO
39	1048	98.8	667	7	ADD50225	Add50225 Human PRO
40	1048	98.8	667	7	ADD51236	Add51236 Novel hum
41	1048	98.8	667	8	ADC48783	Adc48783 Novel hum
42	1048	98.8	667	8	ADE20954	Ade20954 Novel hum
43	1048	98.8	667	8	ADE05798	Ade05798 Human PRO
44	1048	98.8	667	8	ADD75027	Add75027 Human PRO
45	1048	98.8	667	8	ADD75773	Add75773 Novel hum

ALIGNMENTS

RESULT 1
ABB99462
ID ABB99462 standard; protein; 199 AA.
XX
AC ABB99462;
XX
DT 12-FEB-2003 (first entry)
XX
DE Amino acid sequence of the amino-terminal of human STRA6.
XX
KW Human; STRA6; retinoic acid; hSTRA6; Wnt-1; cellular transformation;
KW tumour; colon cancer; breast cancer; melanoma; gene therapy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 31
FT /note= "unknown residue encoded by GNN"
XX
PN WO200277027-A1.
XX
PD 03-OCT-2002.
XX
PF 23-MAR-2001; 2001WO-US009561.
XX
PR 23-MAR-2000; 2000US-0191532P.
XX
PA (CURA-) CURAGEN CORP.
PA (GETH) GENENTECH INC.
XX
PI Rastelli LK, Pennica D;
XX
XX WPI; 2003-058366/05.
DR N-PSDB; ABV76852.
XX
PT New human STRA6 (stimulated by retinoic acid) proteins and nucleic acids
PT encoding the proteins, useful for treating cancers (e.g. colon and breast
PT cancer, or melanoma), or in gene therapy.
XX
PS Claim 4; Page 9-10; 113pp; English.
XX
CC The present sequence represents the amino-terminal portion of a human
CC protein, designated STRA6 (stimulated by retinoic acid). hSTRA6 (human
CC STRA6) is modulated by Wnt-1 and plays a role in cellular transformation.
CC The hSTRA6 nucleic acids and proteins are useful for treating tumours
CC (e.g. colon and breast cancer, or melanoma), in gene therapy, in
CC diagnostic applications where the presence or amount of the nucleic acid
CC or protein is to be assessed, and in the generation of antibodies that

CC bind immunospecifically to these sequences for therapeutic and diagnostic
CC applications. hSTRA6 nucleic acid fragments may be used as hybridization
CC probes to identify hSTRA6-encoding nucleic acids, or as PCR primers for
CC amplification and/or mutation of hSTRA6 molecules
XX

SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;
Best Local Similarity 100.0%; Pred. No. 1.8e-107;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSI 60
Db 1 MSQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSI 60
QY 61 LVLLLLLMLVRRRQLWPCDVRGRPGLPSPVDFLAGDRPRAPVPAAVFMVLLSSLCILLPDE 120
Db 61 LVLLLLLMLVRRRQLWPCDVRGRPGLPSPVDFLAGDRPRAPVPAAVFMVLLSSLCILLPDE 120
QY 121 DALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLIGSTLSW 180
Db 121 DALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLIGSTLSW 180

QY 181 AHLGVQVWQRAECPQVPKI 199
Db 181 AHLGVQVWQRAECPQVPKI 199

RESULT 2

AAO17374
ID AAO17374 standard; protein; 487 AA.

XX AAO17374;

DT 08-JUL-2002 (first entry)

DE Human retinoic acid responsive protein 53-57.

XX Human; retinoic acid responsive protein 53.57; arrhythmia;
KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;
KW antiasthmatic; antidiabetic; endocrine; cardiant;
KW embryonic development disorder; gene therapy.

XX Homo sapiens.

OS WO200226808-A1.

PN 04-APR-2002.

XX 20-AUG-2001; 2001WO-CN001252.

PF 23-AUG-2000; 2000CN-00119715.

XX (SHAN-) SHANGHAI BIOWINDOW GENE DEV INC.

XX Mao Y, Xie Y;

XX WPI; 2002-330093/36.

DR N-PSDB; AAL45968.

XX Human retinoic acid responsive protein 53.57 and encoding polynucleotide,
PT used in diagnosis and treatment of diseases e.g., arrhythmia, asthma,
PT diabetes and cancer.

XX Claim 1; Page 32-33; 37pp; Chinese.

XX The present invention provides the protein and coding sequences of human
CC retinoic acid responsive protein 53.57. The sequences can be used in the
CC treatment of arrhythmia, bronchial asthma, peptic ulcer, diabetes, cancer
CC and embryonic development disorders. The present sequence is the protein
CC of the invention

XX Sequence 487 AA;

Query Match 98.8%; Score 1048; DB 5; Length 487;
Best Local Similarity 99.0%; Pred. No. 8.8e-106;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLLMLVRRRQLWPCDVRGRPGLPSPVDFLAGDRPRAPVPAAVFMVLLSSLCILLPDED 121
Db 63 VLLLLLMLVRRRQLWPCDVRGRPGLPSPVDFLAGDRPRAPVPAAVFMVLLSSLCILLPDED 122
QY 122 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLIGSTLSWA 181
Db 123 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLIGSTLSWA 182
QY 182 HLGQVQVWQRAECPQVPKI 199
Db 183 HLGQVQVWQRAECPQVPKI 200

RESULT 3

ABU82087
ID ABU82087 standard; protein; 666 AA.

XX ABU82087;

DT 26-JUN-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO10282.

XX Human; secreted and transmembrane protein; PRO; cardiant; cytostatic;
KW antiangiogenic; hypotensive; vulnenry; antiarteriosclerotic;
KW gene therapy; cardiovascular disorder; endothelial disorder;
KW angiogenic disorder; cardiac hypertrophy; trauma; cancer;
KW age-related macular degeneration; atherosclerosis; hypertension;
KW arterial restenosis; rheumatoid arthritis; angina; myocardial infarction;
KW thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma;
KW liver carcinoma; wound healing; chromosome mapping; gene mapping.

XX Homo sapiens.

XX US2003088063-A1.

XX 08-MAY-2003.

XX 12-AUG-2002; 2002US-00219003.

XX 25-JUL-2000; 2000US-0220664P.

XX 01-JUN-2001; 2001WO-US017800.

XX 29-JUN-2001; 2001WO-US021066.

XX 09-APR-2002; 2002US-00119480.

XX (GETH) GENENTECH INC.

XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

XX WPI; 2003-393229/37.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT infarction), endothelial or angiogenic disorders in a mammal.

XX Claim 11; Fig 80; 314pp; English.

XX The invention describes one hundred and eighty seven nucleic acids
CC encoding novel human secreted and transmembrane (PRO) polypeptides. The
CC PRO nucleic acids, polypeptides, agonists and antagonists are useful for
CC treating or diagnosing a cardiovascular, endothelial or angiogenic
CC disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-
CC related macular degeneration, atherosclerosis, hypertension, arterial

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CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,
CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast
CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids
CC have applications in molecular biology, including use as hybridisation
CC probes, and in chromosome and gene mapping. This is the amino acid
CC sequence of a novel human secreted and transmembrane PRO polypeptide
XX
SQ Sequence 666 AA;

Query Match          98.8%; Score 1048; DB 6; Length 666;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
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Db 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
   |||||||

Qy 62 VLLLLLMLVRRRLWPDCVGRGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
   |||||||
Db 63 VLLLLLMLVRRRLWPDCVGRGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122
   |||||||

Qy 122 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
   |||||||
Db 123 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182
   |||||||

Qy 182 HLGQVQVWQRAECPOVPKI 199
   |||||||
Db 183 HLGQVQVWQRAECPOVPKI 200
   |||||||

RESULT 4
AAU04557
ID AAU04557 standard; protein; 667 AA.
XX
AC AAU04557;
XX
DT 26-SEP-2001 (first entry)
XX
DE Human Stra6 homologue, PRO10282.
XX
KW Human; Stra6; PRO10282; 15q23; tumour; breast cancer; head tumour;
KW leukaemia; lymphoid malignancy; inflammatory disorder;
KW immunogenic disorder; antigen; antibody.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Modified-site 8..12
FT FT /note= "Asn is N-glycosylated"
FT Region 50..56
FT FT /label= N_myristoylation_site
FT Domain 54..69
FT FT /label= Transmembrane_domain
FT Region 89..97
FT FT /note= "Region deleted in Stra6 variant PRO19578"
FT Domain 102..119
FT FT /label= Transmembrane_domain
FT Region 132..140
FT FT /note= "ATP/GTP-binding site motif A (P-loop)"
FT Domain 148..166
FT FT /label= Transmembrane_domain
FT Region 176..182
FT FT /label= N_myristoylation_site
FT Domain 207..222
FT FT /label= Transmembrane_domain
FT Region 241..247
FT FT /label= N_myristoylation_site
FT Domain 301..320
FT FT /label= Transmembrane_domain
FT Region 317..323
FT FT /label= N_myristoylation_site
FT Region 341..347
FT FT /label= N_myristoylation_site
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FT Domain 364..380
FT /label= Transmembrane_domain
FT Region 364..375
FT /note= "Prokaryotic membrane lipoprotein attachment site"
FT Domain 431..451
FT /label= Transmembrane_domain
FT Domain 474..489
FT /label= Transmembrane_domain
FT Region 525..531
FT /label= N_myristoylation_site
FT Domain 560..535
FT /label= Transmembrane_domain
FT Region 627..633
FT /label= N_myristoylation_site
FT Region 631..637
FT /label= N_myristoylation_site
FT Region 640..646
FT /label= N_myristoylation_site
FT Region 661..667
FT /label= N_myristoylation_site
XX
PN WO200151635-A2.
XX
PD 19-JUL-2001.
XX
PF 11-JAN-2001; 2001WO-US000847.
XX
PR 13-JAN-2000; 2000US-0175849P.
PR 14-APR-2000; 2000US-0197089P.
PR 29-AUG-2000; 2000US-0228914P.
XX
PA (GETH ) GENENTECH INC.
XX
PI Pennica D, Smith V, Wood WI;
XX
DR WPI; 2001-442146/47.
DR N-PSDB; AAS08630.
XX
PT Human nucleic acid encoding a PRO10282 or PRO19578 polypeptide (the PRO
PT polypeptides are referred to as Stra6 polypeptides), useful in molecular
PT biology, including use as hybridization probes, and in chromosome and
PT gene mapping.
XX
PS Claim 24; Fig 2; 159pp; English.
XX
CC The sequence is human PRO10282, a homologue of murine Stra6, a retinoic
CC acid responsive protein thought to play an important role in early
CC dorsoventral limb patterning during development and later in the control
CC of endochondral ossification. The gene for the Stra6 homologue is located
CC on chromosome 15q23. The Stra6 polypeptides, agonists, antagonists or
CC anti-Stra6 antibodies are useful for preparation of a medicament useful
CC in the treatment of a condition which is responsive to the Stra6
CC polypeptides, agonists, antagonists or anti-Stra6 antibodies. The Stra6
CC polypeptides may also be employed as molecular weight markers for protein
CC electrophoresis. The Stra6 nucleic acids have applications in molecular
CC biology, including use as hybridisation probes, and in chromosome and
CC gene mapping. The antibodies and other anti-tumour compounds may be used
CC to treat various conditions, including those characterised by
CC overexpression and/or activation of amplified genes. Exemplary conditions
CC or disorders include benign or malignant tumours (e.g., renal, liver,
CC kidney, bladder, breast, gastric, ovarian, colorectal, prostate,
CC pancreatic, lung, vulval, thyroid, hepatic carcinomas, sarcomas,
CC glioblastomas, and various head and neck tumours, leukaemias and lymphoid
CC malignancies), neuronal, glial, astrocytal, hypothalamic and other
CC glandular, macrophagal, epithelial, stromal and blastocoeic disorders,
CC inflammatory, angiogenic and immunogenic disorders
XX
SQ Sequence 667 AA;
```

Query Match 98.8%; Score 1048; DB 4; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVMLLSLCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVMLLSLCLLLPDED 122
QY 122 ALPFLTASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLWA 181
Db 123 ALPFLTASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLWA 182
QY 182 HLGQVQWQRAECPCQVPKI 199
Db 183 HLGQVQWQRAECPCQVPKI 200

RESULT 5
AAB88572
ID AAB88572 standard; protein; 667 AA.

XX AAB88572;
AC
XX
DT 04-JUN-2001 (first entry)

XX Human hydrophobic domain containing protein clone HP10713 #36.

DE Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
XX antianaemic; vulnery; antiulcer; osteopathic; anti-inflammatory;
KW cytostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response.

XX Homo sapiens.

OS WO200112660-A2.

PN 22-FEB-2001.

XX 10-AUG-2000; 2000WO-JP005356.

PF 17-AUG-1999; 99JP-00230344.

XX 07-SEP-1999; 99JP-00252551.

PR 01-OCT-1999; 99JP-00281132.

PR 22-OCT-1999; 99JP-00301624.

PR 04-NOV-1999; 99JP-00313877.

XX (SAGA) SAGAMI CHEM RES CENT.

PA (PROT-) PROTEGENE INC.

XX Kato S, Kimura T;

XX WPI; 2001-160059/16.

DR N-PSDB; AAF94442.

XX Human proteins with hydrophobic domains and the DNAs which encode them

PT are useful for treating autoimmune disorders, burns and tumors and for

PT screening novel pharmaceuticals.

XX Claim 1; Page 288-291; 518pp; English.

XX AAF94417 to AAF94516 encode the human proteins given in AAB88557 to

CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,

CC anti-HIV, neuroprotective, antianaemic, vulnery, antiulcer,

CC osteopathic, anti-inflammatory and cytostatic activities, and can be used

CC in gene therapy. (I) can be used as pharmaceuticals and as antigens to

CC (I). Activities of (I) may include cytokine and cell
CC proliferation/differentiation function, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
CC wound healing, as nutritional sources or supplements e.g. as amino acid,
CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
CC processing and utilisation of dietary fat, protein, carbohydrate, to affect
CC vitamins and minerals, to effect behavioural characteristics, to affect
CC appetite, and can act as antigens in vaccines to raise an immune response
CC to the protein or another material cross-reactive with the protein
XX
SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 4; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVMLLSLCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVMLLSLCLLLPDED 122

QY 122 ALPFLTASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLWA 181
Db 123 ALPFLTASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLWA 182

QY 182 HLGQVQWQRAECPCQVPKI 199

Db 183 HLGQVQWQRAECPCQVPKI 200

RESULT 6

AAU83631

ID AAU83631 standard; protein; 667 AA.

XX AAU83631;

XX 08-MAY-2002 (first entry)

DT Human PRO protein, Seq ID No 80.

DE Human; secreted protein; PRO; tumour; lung cancer; colon cancer;

XX breast cancer; prostate tumour; rectal tumour; liver tumour;

XX pericyte cell proliferation; chondrocyte cell proliferation;

XX tumour necrosis factor-alpha.

XX Homo sapiens.

OS WO200208288-A2.

XX 31-JAN-2002.

XX 29-JUN-2001; 2001WO-US021066.

XX 20-JUL-2000; 2000US-0219556P.

PR 25-JUL-2000; 2000US-0220585P.

PR 25-JUL-2000; 2000US-0220605P.

PR 25-JUL-2000; 2000US-0220607P.

PR 25-JUL-2000; 2000US-0220624P.

PR 25-JUL-2000; 2000US-0220638P.

PR 25-JUL-2000; 2000US-0220664P.

PR 26-JUL-2000; 2000US-0220893P.

PR 28-JUL-2000; 2000WO-US020710.

PR 01-AUG-2000; 2000US-0222425P.

PR 22-AUG-2000; 2000US-0227133P.


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PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 10-NOV-2000; 2000WO-US030873.
PR 28-NOV-2000; 2000US-0253646P.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
XX WPI; 2002-172001/22.
XX N-PSDB; ABK33575.
XX
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,
XX useful for treating a PRO related disorder and for diagnosing tumors such
XX as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
XX or liver tumor.
XX
XX Claim 11; Fig 80; 359pp; English.
XX
XX The invention relates to one hundred and twenty two nucleic acids
XX encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
XX encode human secreted proteins. The PRO nucleic acids, polypeptides,
XX agonists and antagonists are useful for treating a PRO related disorder.
XX The PRO polypeptides are useful for diagnosing tumours, especially lung
XX cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
XX liver tumour. The PRO polypeptides are useful for stimulating the
XX proliferation of, or gene expression, in pericyte cells, for stimulating
XX the proliferation or differentiation of chondrocyte cells, for
XX stimulating the release of tumour necrosis factor-alpha from human blood,
XX for stimulating or inhibiting the proliferation of normal human dermal
XX fibroblast cells. The PRO polypeptide may also be used as molecular
XX weight markers and for tissue typing. The PRO nucleic acids have
XX applications in molecular biology, including use as hybridisation probes,
XX and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
XX protein sequences of the invention
XX
XX Sequence 667 AA;
XX
XX Query Match 98.8%; Score 1048; DB 5; Length 667;
XX Best Local Similarity 99.0%; Pred. No. 1.3e-105;
XX Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
XX |||||||
XX 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
XX |||||||
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XX 63 VLLLLLMLVRRRLQWPCVGRGCLPSPVDFLAGDRPRAVPAVFMVLLSSCLLLPDED 122
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XX 122 ALPFLTASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLWA 181
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XX 183 HLGQVQWQRAECQPVPKI 200
XX |||||||
XX
XX RESULT 7
XX AAU78575
XX ID AAU78575 standard; protein; 667 AA.
XX XX
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AC AAU78575;
XX
XX 18-JUN-2002 (first entry)
XX
XX Human Stra6 (PRO10282) protein.
XX
XX Human; cancer; Stra6; PRO10282; cytostatic; stromal disorder; tumour;
XX retinoid; Wnt; tumour antigen; leukaemia; lymphoid malignancy;
XX neuronal disorder; glial disorder; astrocytal disorder;
XX hypothalamic disorder; glandular disorder; macrophagal disorder;
XX epithelial disorder; blastocoelec disorder; chromosome 15q23.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Region 8..12
XX /note= "N Glycosylation site"
XX Region 50..56
XX /note= "N-myristoylation site"
XX Domain 54..69
XX /note= "Transmembrane domain"
XX Domain 102..119
XX /note= "Transmembrane domain"
XX Region 132..140
XX /note= "ATP/GTP binding site motif A"
XX Domain 148..166
XX /note= "Transmembrane domain"
XX Region 176..182
XX /note= "N-myristoylation site"
XX Domain 207..222
XX /note= "Transmembrane domain"
XX Region 241..247
XX /note= "N-myristoylation site"
XX Domain 301..320
XX /note= "Transmembrane domain"
XX Region 317..323
XX /note= "N-myristoylation site"
XX Region 341..347
XX /note= "N-myristoylation site"
XX Domain 364..380
XX /note= "Transmembrane domain"
XX Region 364..375
XX /note= "lipoprotein lipid attachment site"
XX Domain 431..451
XX /note= "Transmembrane domain"
XX Domain 474..489
XX /note= "Transmembrane domain"
XX Region 525..531
XX /note= "N-myristoylation site"
XX Domain 560..535
XX /note= "Transmembrane domain"
XX Region 627..633
XX /note= "N-myristoylation site"
XX Region 631..637
XX /note= "N-myristoylation site"
XX Region 640..646
XX /note= "N-myristoylation site"
XX Region 661..667
XX /note= "N-myristoylation site"
XX
XX WO200218608-A2.
XX
XX 07-MAR-2002.
XX
XX 10-JUL-2001; 2001WO-US021635.
XX
XX 29-AUG-2000; 2000US-0228914P.
XX 11-JAN-2001; 2001US-00759056.
XX 10-JUL-2001; 2001US-00901812.
XX
XX (GETH ) GENENTECH INC.
XX
XX Tice D, Pennica D, Polakis P, Szeto W;
XX
```

XX WPI; 2002-292202/33.
DR N-PSDB; ABK47278.
XX
PT Selectively enhancing the expression of a protein in a tumor cell
PT characterized by aberrant Wnt signaling, useful for enhancing the
PT efficacy of treatment of cancers, comprises treating the tumor cell with
PT a retinoid.
XX
PS Example 1; Fig 2; 141pp; English.
XX
CC This invention relates to a novel method for selective enhancement of the
CC expression of a protein in a tumour cell characterised by aberrant Wnt
CC signalling by treating the tumour cell with a retinoid. The method is
CC useful for enhancing the efficacy of treatment of cancers characterised
CC by aberrant Wnt signalling, and for identifying tumour antigens the
CC expression of which is selectively enhanced by retinoid treatment. The
CC method is also useful in the early detection of tumours for early
CC intervention. The tumour antigens are useful as targets for cancer
CC therapy, since selective enhancement of their expression by retinoid
CC treatment relative to normal cells improves the efficacy and therapeutic
CC index of cancer therapeutics directed against these antigens. Antibodies
CC binding to the tumour antigens may be administered for the treatment of
CC various disorders or conditions, including those characterised by
CC overexpression and/or activation of the tumour antigens, where such
CC conditions or disorders include benign or malignant tumours; leukaemias
CC and lymphoid malignancies; neuronal, glial, astrocytal, hypothalamic and
CC other glandular, macrophagal, epithelial, stromal and blastocoeleic
CC disorders. The present sequence represents the human Stra6 protein
CC (PRO10282) which is selectively upregulated by retinoid using the method
CC of the invention. The gene encoding the human Stra6 protein is located on
CC human chromosome 15q23
XX
SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 5; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db |||||
3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
|||

QY 62 VLLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSLCILLPDED 121
Db |||||
63 VLLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSLCILLPDED 122
|||

QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db |||||
123 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 182
|||

QY 182 HLGQVQWQRAECQVPKI 199
Db |||||
183 HLGQVQWQRAECQVPKI 200
|||

RESULT 8
AAO19413
ID AAO19413 standard; protein; 667 AA.
XX AAO19413;
XX
DT 10-DEC-2002 (first entry)
XX
DE Human molecule for disease detection and treatment protein #16.
XX
KW Human; molecule for disease detection and treatment; MDDT; gene therapy;
KW cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic;
KW antiinflammatory; antiasthmatic; cerebroprotective; nootropic;
KW neuroprotective; antiparkinsonian; cardiant; antianginal.
XX
OS Homo sapiens.
XX

PN WO200270709-A2.
XX
PD 12-SEP-2002.
XX
PF 08-FEB-2002; 2002WO-US003709.
XX
PR 09-FEB-2001; 2001US-0268117P.
PR 15-FEB-2001; 2001US-0269618P.
PR 23-FEB-2001; 2001US-0271118P.
PR 07-MAR-2001; 2001US-0274486P.
PR 09-MAR-2001; 2001US-0274436P.
PR 28-NOV-2001; 2001US-0334229P.
PR 01-FEB-2002; 2002US-0353284P.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y;
PI Honchell CD, Yue H, Ding L, Gietzen KJ, Ison CH, Lu DAM;
PI Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;
PI Ramkumar J, Griffen JA, Swarnaker A, Azimzai Y, Sapperstein SK;
PI Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
XX
DR WPI; 2002-713453/77.
DR N-PSDB; AAL49942.
XX
PT New human molecules for disease detection and treatment (MDDT), useful
PT for diagnosing, treating and preventing diseases or conditions associated
PT with the aberrant MDDT expression, e.g. cancer, AIDS, asthma, diabetes,
PT hepatitis.
XX
PS Claim 1; Page 148-150; 177pp; English.
XX
CC The present invention relates to human proteins and coding sequences of
CC molecules for disease detection and treatment MDDT. The sequences can be
CC used in the treatment of diseases associated with the decreased
CC expression or overexpression of MDDT, such as cell proliferative (cancer,
CC atherosclerosis, hepatitis), autoimmune/inflammatory (e.g. AIDS,
CC allergies, Addison's disease, asthma), developmental (dwarfism, renal
CC tubular acidosis), neurological (e.g. stroke, Parkinson's disease,
CC epilepsy) and cardiovascular (congestive heart failure, myocardial
CC infarction, angina pectoris) disorders. The present sequence is a protein
CC of the invention
XX
SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 5; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db |||||
3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
|||

QY 62 VLLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSLCILLPDED 121
Db |||||
63 VLLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSLCILLPDED 122
|||

QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db |||||
123 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 182
|||

QY 182 HLGQVQWQRAECQVPKI 199
Db |||||
183 HLGQVQWQRAECQVPKI 200
|||

RESULT 9
ADA54816
ID ADA54816 standard; protein; 667 AA.
XX
AC ADA54816;
XX
DT 20-NOV-2003 (first entry)

XX DE Human protein, SEQ ID 2384.

XX KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;

XX KW Gene Therapy; human; secretory protein; membrane proteins; cancer;

XX KW inflammatory disease; osteoporosis; neurological disease.

XX OS Homo sapiens.

XX PN EP1293569-A2.

XX PD 19-MAR-2003.

XX PF 21-MAR-2002; 2002EP-00006586.

XX PR 14-SEP-2001; 2001JP-00328381.

XX PR 24-JAN-2002; 2002US-0350435P.

XX PA (HELI-) HELIX RES INST.

XX PA (REAS-) RES ASSOC BIOTECHNOLOGY.

XX PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;

XX PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;

XX PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;

XX DR WPI; 2003-395539/38.

XX DR N-PSDB; ADA53177.

XX PT New polynucleotides encoding full-length polypeptides, e.g. secretory

XX PT and/or membrane proteins, useful for developing medicines for diseases in

XX PT which the gene is involved, or as target molecules for gene therapy.

XX PS Claim 14; SEQ ID NO 2384; 205pp; English.

XX CC The present invention relates to novel human secretory or membrane

XX CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-

XX CC ADA54071). The coding sequences are useful in the gene therapy of

XX CC diseases caused by abnormalities of the proteins, e.g. cancer,

XX CC inflammatory diseases, osteoporosis or neurological disease.

XX SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;

Best Local Similarity 99.0%; Pred. No. 1.3e-105;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNOTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121

Db 63 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122

QY 122 ALPFLTASAPSDGKTEAPRGAWKILGLFYAALYYPPLAACATAGHTAAHLGSLTSLWA 181

Db 123 ALPFLTASAPSDGKTEAPRGAWKILGLFYAALYYPPLAACATAGHTAAHLGSLTSLWA 182

QY 182 HLGQVQVWQRAECPQVPKI 199

Db 183 HLGQVQVWQRAECPQVPKI 200

RESULT 10

ABU80778

ID ABU80778 standard; protein; 667 AA.

XX AC ABU80778;

XX DT 23-JUN-2003 (first entry)

XX DE Human PRO polypeptide #40.

KW Human; PRO polypeptide; secreted and transmembrane protein;

KW anti-PRO antibody; diagnostic assay; gene expression; tumour; cytostatic.

XX OS Homo sapiens.

XX PN US2003036635-A1.

XX PD 20-FEB-2003.

XX PF 28-AUG-2002; 2002US-00230163.

XX PR 25-JUL-2000; 2000US-0220638P.

XX PR 01-JUN-2001; 2001WO-US017800.

XX PR 29-JUN-2001; 2001WO-US021066.

XX PR 09-APR-2002; 2002US-00119480.

XX PA (GETH) GENENTECH INC.

XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;

XX PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

XX DR WPI; 2003-342045/32.

XX DR N-PSDB; ACA66880.

XX PT One hundred and twenty two nucleic acids encoding PRO polypeptides,

XX PT useful for the manufacture of a medicament for diagnosing or treating

XX PT tumor.

XX PS Claim 11; Fig 80; 314pp; English.

XX CC The present invention relates to the isolation of novel human PRO

XX CC polypeptides, and the polynucleotide sequences encoding them. The PRO

XX CC polypeptides are secreted and transmembrane proteins. The PRO

XX CC polypeptides and polynucleotides are useful for preparing a medicament

XX CC useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are

XX CC useful in diagnostic assays for PRO, by detecting its expression in

XX CC specific cells, tissues or serum, and for affinity purification of PRO

XX CC from recombinant cell culture or natural sources. ABU80739-ABU80860

XX CC represent the human PRO polypeptides of the invention. Note: The sequence

XX CC data for this patent was obtained in electronic format directly from the

XX CC USPTO web site at seqdata.uspto.gov/psipsDIDentry.html

XX SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;

Best Local Similarity 99.0%; Pred. No. 1.3e-105;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNOTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121

Db 63 VLLLLAMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122

QY 122 ALPFLTASAPSDGKTEAPRGAWKILGLFYAALYYPPLAACATAGHTAAHLGSLTSLWA 181

Db 123 ALPFLTASAPSDGKTEAPRGAWKILGLFYAALYYPPLAACATAGHTAAHLGSLTSLWA 182

QY 182 HLGQVQVWQRAECPQVPKI 199

Db 183 HLGQVQVWQRAECPQVPKI 200

RESULT 11

ABO33744

ID ABO33744 standard; protein; 667 AA.

XX AC ABO33744;

XX DT 17-SEP-2003 (first entry)

XX

DE Novel human secreted and transmembrane protein PRO10282.
XX Human; secreted and transmembrane protein; PRO; cytostatic;
KW antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;
KW chondrocyte stimulator; pericyte stimulator; fibroblast modulator;
KW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW liver tumour; bone disorder; cartilage disorder; sports injury;
KW arthritis; wound.
XX Homo sapiens.
OS US2003045687-A1.
XX 06-MAR-2003.
XX 12-AUG-2002; 2002US-00218631.
XX 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX (GETH) GENENTECH INC.
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI; 2003-512315/48.
DR N-PSDB; ACD68632.
XX New genes, and its encoded secreted and transmembrane polypeptides,
PT useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte or
PT pericyte proliferation, especially for treating lung tumors, arthritis or
PT wounds in a mammal.
XX Claim 11; Fig 80; 314pp; English.
XX The invention describes an isolated nucleic acid molecule comprising a
CC sequence with at least 80% identity to: (a) a nucleotide encoding any of
CC 122 PRO (secreted and transmembrane) polypeptides whose sequences are
CC fully defined in the specification; or (b) any of 122 nucleotide
CC sequences having e.g. 4834, 2504 or 1759 bp fully defined in the
CC specification; or the full length coding sequence of any these 122
CC nucleotide sequences. The PRO polypeptides or polynucleotides are useful
CC as pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC particularly useful for detecting tumours (e.g. lung tumour, colon
CC tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)
CC in a mammal, for stimulating the release of TNF-alpha from human blood,
CC for stimulating the proliferation or differentiation of chondrocyte
CC cells, for stimulating proliferation of pericyte cells, or for modulating
CC normal human dermal fibroblast proliferation. The PRO nucleic acid or
CC polypeptide is also useful for treating tumours or various bone and/or
CC cartilage disorders (e.g. sports injuries or arthritis), or wounds. The
CC PRO polypeptides are useful in drug screening, particularly as targets
CC for therapeutic intervention in these diseases, and in the diagnostic
CC determination of the presence of these diseases. The PRO polypeptides are
CC also useful as molecular weight markers, or for chromosome
CC identification. The PRO genes are useful as hybridisation probes, or for
CC screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may
CC also be used in gene therapy, particularly for replacing a defective
CC gene. This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122
QY 122 ALPELTLASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSLWSA 181
Db ALPELTLASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSLWSA 182
QY 182 HLGQVWQRAECQPQPKI 199
Db HLGQVWQRAECQPQPKI 200
RESULT 12
ABJ72267
ID ABJ72267 standard; protein; 667 AA.
XX
AC ABJ72267;
XX
DT 06-NOV-2003 (first entry)
XX Human PRO10282 protein.
XX PRO; proliferation; pericyte cell; TNF-alpha; blood; chondrocyte;
KW differentiation; dermal fibroblast; tumour; gene therapy; cytostatic.
XX Homo sapiens.
OS
XX US2003050448-A1.
XX 13-MAR-2003.
XX 28-AUG-2002; 2002US-00230414.
PF
XX 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX (GETH) GENENTECH INC.
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI; 2003-521818/49.
DR N-PSDB; ABT44265.
XX New nucleic acid encoding for a PRO protein, useful for the manufacture
PT of a medicament for diagnosing or treating tumors or for measuring or
PT detecting expression of an associated gene.
XX Claim 11; Fig 80; 315pp; English.
XX The invention relates to a novel isolated nucleic acid encoding a fully
CC defined PRO polypeptide. The molecules of the invention may be useful for
CC stimulating proliferation or gene expression in pericyte cells or the
CC release of TNF-alpha from human blood. Other possible uses include the
CC stimulation or inhibition of chondrocyte proliferation or
CC differentiation, the stimulation of human dermal fibroblast cell
CC proliferation and the detection of the presence of a tumour within a
CC mammal. Furthermore, the nucleic acid may be useful for the manufacture
CC of a medicament for diagnosing or treating a tumour within a mammal or
CC for measuring or detecting the expression of an associated gene, as well
CC as during gene therapy. The current sequence is that of the human PRO
CC protein of the invention
XX
SQ Sequence 667 AA;
Query Match 98.8%; Score 1048; DB 6; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGEELOPGEVPSCHTSIPPGLYHACLASLSIL 62
Qy 62 VLLLLAMLVRRRQLWPDVCVRGRLPGLPSPVDFLAGDRPRAVPAAVFVLLSSLCILLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPGLPSPVDFLAGDRPRAVPAAVFVLLSSLCILLLPDED 122
Qy 122 ALPFLTILASAPSDQCKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db 123 ALPFLTILASAPSDQCKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 182
Qy 182 HLGQVQWQRAECPOVPKI 199
Db 183 HLGQVQWQRAECPOVPKI 200

RESULT 13
ABJ72395
ID ABJ72395 standard; protein; 667 AA.

XX AC ABJ72395;
XX DT 06-NOV-2003 (first entry)
XX DE Human PRO10282 protein.
XX KW PRO; blood; proliferation; pericyte cell; TNF alpha; chondrocyte;
KW tumour necrosis factor; proliferation; differentiation; gene therapy;
KW dermal fibroblast.

XX OS Homo sapiens.
XX PN US2003027988-A1.
XX PD 06-FEB-2003.
XX PF 26-AUG-2002; 2002US-00227884.
XX PR 01-JUN-2001; 2001WO-US017800.
XX PR 29-JUN-2001; 2001WO-US021066.
XX PR 09-APR-2002; 2002US-00119480.
XX PA (GETH) GENENTECH INC.
XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI; 2003-503301/47.
XX DR N-PSDB; ABT44548.

XX PT New PRO protein encoding nucleic acid, useful for preparing PRO
PT polypeptides and anti-PRO antibodies for detecting the presence of a
PT tumor in a mammal.
XX PS Claim 11; Fig 80; 324pp; English.
XX CC The invention relates to a novel isolated PRO protein encoding nucleic
CC acid. The nucleic acid of the invention may be useful for preparing PRO
CC polypeptides and anti-PRO antibodies for detecting the presence of a
CC tumor in a mammal. Furthermore, the molecules of the invention may be
CC useful for stimulating proliferation or gene expression in pericyte
CC cells, the release of tumour necrosis factor (TNF)-alpha from human
CC blood, the proliferation or differentiation of chondrocyte cells and for
CC inhibiting the proliferation of normal human dermal fibroblast cells.
CC Finally, the molecules may be utilised during gene therapy. The current
CC sequence is that of the human PRO protein of the invention
XX SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGEELOPGEVPSCHTSIPPGLYHACLASLSIL 62
Qy 62 VLLLLAMLVRRRQLWPDVCVRGRLPGLPSPVDFLAGDRPRAVPAAVFVLLSSLCILLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPGLPSPVDFLAGDRPRAVPAAVFVLLSSLCILLLPDED 122
Qy 122 ALPFLTILASAPSDQCKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db 123 ALPFLTILASAPSDQCKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 182
Qy 182 HLGQVQWQRAECPOVPKI 199
Db 183 HLGQVQWQRAECPOVPKI 200

RESULT 14
ABO34290
ID ABO34290 standard; protein; 667 AA.

XX AC ABO34290;
XX DT 19-SEP-2003 (first entry)
XX DE Human secreted/transmembrane polypeptide PRO 10282.
XX KW Human; chondrocyte stimulation; TNF-alpha stimulation; gene therapy;
KW human dermal fibroblast stimulation; tumour; tissue typing;
KW affinity purification.

XX OS Homo sapiens.
XX PN US2003044934-A1.
XX PD 06-MAR-2003.
XX PF 28-AUG-2002; 2002US-00230338.
XX PR 01-JUN-2001; 2001WO-US017800.
XX PR 29-JUN-2001; 2001WO-US021066.
XX PR 09-APR-2002; 2002US-00119480.

XX PA (GETH) GENENTECH INC.
XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI; 2003-492274/46.
XX DR N-PSDB; ACD82215.
XX PT New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.
XX PS Claim 19; Fig 80; 315pp; English.

XX CC The invention relates to an isolated nucleic acid encoding a PRO
CC polypeptide. Nucleic acids that encode PRO can be used to generate either
CC transgenic animals or knock-out animals useful in developing and
CC screening of therapeutically useful reagents. The nucleic acids may also
CC be used in gene therapy for replacing defective gene, in chromosome
CC identification, as chromosome markers, or in generating probes to isolate
CC full length PRO cDNA. The PRO polypeptides are useful for chondrocyte
CC stimulation, TNF-alpha stimulation, human dermal fibroblasts stimulation
CC and for detecting the presence of tumour in a mammal. The PRO
CC polypeptides are useful as molecular markers for protein electrophoresis
CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The present sequence represents the amino acid sequence
CC of a human secreted/transmembrane PRO polypeptide
XX

SQ Sequence 667 AA;
Query Match 98.8%; Score 1048; DB 6; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNQTSPGATEDSYGSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYGSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLLPDED 122
QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLIGSTLSWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLIGSTLSWA 182
QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200
RESULT 15
ABJ72097
ID ABJ72097 standard; protein; 667 AA.
XX
AC ABJ72097;
XX
DT 16-OCT-2003 (first entry)
XX
DE Human membrane bound receptor/protein PRO10282 amino acid sequence.
XX
KW Human; PRO; membrane bound protein; membrane bound receptor;
KW cell proliferation; cell migration; cell differentiation;
KW mitogenic factor; survival factor; cytotoxic factor;
KW differentiation factor; neuro peptide; hormone; cell receptor;
KW receptor-ligand interaction; cytosstatic; chondrocyte; tumour.
XX
OS Homo sapiens.
XX
PN US2003065147-A1.
XX
PD 03-APR-2003.
XX
PF 29-AUG-2002; 2002US-00232224.
XX
PR 28-JUL-1999; 99US-0146222P.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
DR WPI; 2003-522018/49.
DR N-PSDB; ABT43921.
XX
PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT useful for the manufacture of a medicament for diagnosing or treating
PT tumor.
XX
PS Claim 11; Fig 80; 315pp; English.
XX
CC This invention relates to one hundred and twenty two novel nucleic acids
CC encoding human PRO membrane bound proteins or receptors. Extracellular
CC proteins play important roles in the formation, differentiation and
CC maintenance of multicellular organisms. The fate of many individual cells
CC (for example proliferation, migration or differentiation) is typically

CC governed by information received from other cells and the immediate
CC environment. The information is often transmitted by secreted
CC polypeptides (for example mitogenic factors, survival factors, cytotoxic
CC factors, differentiation factors, neuro peptides and hormones) which are
CC received and interpreted by diverse cell receptors or membrane bound
CC proteins. These membrane bound proteins and receptors may be of use as
CC pharmaceutical and diagnostic agents, such as in the blocking of receptor
CC -ligand interactions. The current invention provides the amino acid
CC sequences of novel human membrane bound receptors and proteins, along
CC with the cDNA sequences encoding them. The novel proteins of the
CC invention may have cytosstatic activities through the stimulation of
CC chondrocytes. The nucleic acids of the invention may be useful for the
CC manufacture of a medicament for diagnosing or treating a tumour in a
CC mammal. In addition, they may be useful for measuring or detecting the
CC expression of a tumour associated gene. The present sequence is the amino
CC acid sequence of a human PRO protein of the invention
XX
SQ Sequence 667 AA;
Query Match 98.8%; Score 1048; DB 7; Length 667;
Best Local Similarity 99.0%; Pred. No. 1.3e-105;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNQTSPGATEDSYGSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYGSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLLPDED 122
QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLIGSTLSWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLIGSTLSWA 182
QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

Search completed: February 8, 2005, 13:36:11
Job time : 91.4866 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:30:00 ; Search time 23.5458 Seconds
(without alignments)
630.905 Million cell updates/sec

Title: US-09-816-653A-2
Perfect score: 1061
Sequence: 1 MSQPAGNQTSPGATEDYSYG.....WAHLGVQVWQRAEQPVPKI 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	88	8.3	509	4	US-09-252-991A-21709	Sequence 21709, A
2	85.5	8.1	380	3	US-08-924-345-2	Sequence 2, Appli
3	84	7.9	913	4	US-09-140-378A-2	Sequence 2, Appli
4	84	7.9	919	1	US-08-336-343A-2	Sequence 2, Appli
5	84	7.9	937	4	US-09-949-016-8366	Sequence 8366, Ap
6	84	7.9	937	4	US-09-949-016-8367	Sequence 8367, Ap
7	84	7.9	937	4	US-09-949-016-8368	Sequence 8368, Ap
8	83	7.8	913	1	US-08-445-640-4	Sequence 4, Appli
9	83	7.8	913	3	US-08-170-558-4	Sequence 4, Appli
10	83	7.8	913	3	US-08-447-314-4	Sequence 4, Appli
11	83	7.8	913	3	US-08-445-461-4	Sequence 4, Appli
12	83	7.8	913	4	US-09-223-490-4	Sequence 4, Appli
13	81	7.6	429	4	US-09-252-991A-30376	Sequence 30376, A
14	80.5	7.6	463	4	US-09-252-991A-19381	Sequence 19381, A
15	80	7.5	433	3	US-09-106-075A-86	Sequence 86, Appl
16	80	7.5	699	5	PCT-US94-07297-39	Sequence 39, Appl
17	80	7.5	921	1	US-08-396-479B-2	Sequence 2, Appli
18	80	7.5	921	1	US-08-818-823-2	Sequence 2, Appli
19	80	7.5	1171	4	US-09-417-197-131	Sequence 131, App
20	80	7.5	1181	4	US-09-417-197-133	Sequence 133, App
21	79.5	7.5	435	4	US-09-902-540-14931	Sequence 14931, A
22	79	7.4	505	1	US-08-221-750A-5	Sequence 5, Appli
23	78.5	7.4	369	4	US-09-902-540-10817	Sequence 10817, A
24	78.5	7.4	532	4	US-09-949-016-6607	Sequence 6607, Ap
25	78.5	7.4	540	4	US-09-252-991A-22555	Sequence 22555, A
26	78.5	7.4	3519	3	US-09-428-517-4	Sequence 4, Appli
27	78	7.4	475	4	US-09-252-991A-25837	Sequence 25837, A

28	77.5	7.3	535	4	US-09-949-016-10290	Sequence 10290, A
29	76.5	7.2	875	1	US-08-785-241-5	Sequence 5, Appli
30	76	7.2	478	4	US-09-902-540-10474	Sequence 10474, A
31	75	7.1	331	2	US-08-986-217-7	Sequence 7, Appli
32	75	7.1	575	4	US-09-949-016-9760	Sequence 9760, Ap
33	74.5	7.0	337	4	US-09-252-991A-33066	Sequence 33066, A
34	74.5	7.0	482	4	US-09-252-991A-23559	Sequence 23559, A
35	74.5	7.0	657	4	US-09-902-540-12047	Sequence 12047, A
36	73.5	6.9	147	4	US-09-252-991A-29490	Sequence 29490, A
37	73.5	6.9	311	4	US-09-252-991A-30973	Sequence 30973, A
38	73.5	6.9	356	4	US-09-602-777A-424	Sequence 424, App
39	73.5	6.9	378	3	US-09-482-180A-2	Sequence 2, Appli
40	73.5	6.9	578	1	US-08-653-740-3	Sequence 3, Appli
41	73.5	6.9	578	2	US-09-073-594-3	Sequence 3, Appli
42	73.5	6.9	578	3	US-09-275-925-3	Sequence 3, Appli
43	73.5	6.9	636	1	US-08-653-740-5	Sequence 5, Appli
44	73.5	6.9	636	2	US-09-073-594-5	Sequence 5, Appli
45	73.5	6.9	636	3	US-09-275-925-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-09-252-991A-21709
; Sequence 21709, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21709
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21709

Query Match	8.3%	Score 88;	DB 4;	Length 509;
Best Local Similarity	27.3%	Pred. NO. 0.3;		
Matches	51;	Conservative 13;	Mismatches 65;	Indels 58; Gaps 12;
QY	26	EPQGGXELQPEGEVPSCH-----TSIPPGLYHACLASILVLLMLVRRRLW----	76	
Db	188	EPQGGGRLRAPGALPADHRGSRVPDFPP---HA--AGLS-----NRRHGAWRSPA	232	
QY	77	---PDC--VRGRPGLPSPVDF-----LAGDRPRAVPAVFMVLLSSCLLLPDEDALPF	125	
Db	233	GATAECRMLAGLPGGHGPLDHRPVPAGGAGGTARRAPRAA-----GTLCPRAVPRAAALS	287	
QY	126	LTLASA----PSQDGKTEAPRGAW-----KILGLFHYAALYYP-----LAACATAGH	168	
Db	288	RGVRAGVFRPRRDAATLQRCAGPVARSLRRRIPGAFOYQP-HYPSPDPAVLVPAAGR	346	
QY	169	TAHLLG 175		
Db	347	TQARTGG 353		

RESULT 2
US-08-924-345-2
; Sequence 2, Application US/08924345
; Patent No. 6224878
; GENERAL INFORMATION:
; APPLICANT: LEUNG-TACK Patricia
; APPLICANT: LEGASTELOIS Isabelle, Christine, Marie-Andree

APPLICANT: AUDONNET Jean-Christophe, Francis
APPLICANT: RIVIERE Michel, Emile, Albert
TITLE OF INVENTION: Mutants and vaccines of the Infectious
TITLE OF INVENTION: Bovine Rhinotracheitis virus
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: LARSON AND TAYLOR
STREET: 727 SOUTH TWENTY-THIRD STREET
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/924,345
FILING DATE: 04-SEP-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/199,172
FILING DATE: 09-AUG-1994
APPLICATION NUMBER: FR 92 07930
FILING DATE: 26-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: SARRO, THOMAS P.
REGISTRATION NUMBER: 19396
REFERENCE/DOCKET NUMBER: XI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 920-7200
TELEFAX: (703) 892-8428
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 380 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-924-345-2

Query Match 8.1%; Score 85.5; DB 3; Length 380;
Best Local Similarity 27.6%; Pred. No. 0.38;
Matches 37; Conservative 12; Mismatches 38; Indels 47; Gaps 6;
QY 4 PAGNQTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLAS-----LS 59
DB 256 PAGPTASPAASPSRAFSA-----AAPAAAAQAGDTFA-----RFRQLASILVPLC 302
QY 60 ILVLLLLAM-----LVRRRL-----WPDVCVRGRLPSPV 90
DB 303 VLVLVLLALCAATVNCAALRRLLPCSRVYKPRTCACGSGTCAGRPPCRGAAPSAPATV 362
QY 91 DFLAGDRPRAVPAA 104
DB 363 VAL-GSRPKAPPLA 375

RESULT 3
US-09-140-378A-2
Sequence 2, Application US/09140378A
Patent No. 6627733
GENERAL INFORMATION:
APPLICANT: Johnson, Jeffrey D.
APPLICANT: Rutter, William J.
APPLICANT: Edman, Jeffrey C.
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Receptor Tyrosine Kinase with a Discoidin-Type Binding
TITLE OF INVENTION: Domain
FILE REFERENCE: 023070-079010US
CURRENT APPLICATION NUMBER: US/09/140,378A
CURRENT FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: US 08/077,254

PRIOR FILING DATE: 1993-06-14
PRIOR APPLICATION NUMBER: US 08/292,299
PRIOR FILING DATE: 1994-08-16
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 913
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: discoidin domain receptor (DDR) tyrosine kinase
NAME/KEY: PEPTIDE
LOCATION: (1)..(18)
OTHER INFORMATION: signal peptide
NAME/KEY: SITE
LOCATION: (19)..(24)
OTHER INFORMATION: uncertain point of signal peptide cleavage between amino acids 19
NAME/KEY: DOMAIN
LOCATION: (31)..(185)
OTHER INFORMATION: discoidin I-type domain
NAME/KEY: -SITE
LOCATION: (374)..(415)
OTHER INFORMATION: proline/glycine-rich portion of connecting region interrupted by
NAME/KEY: TRANSMEM
LOCATION: (417)..(439)
OTHER INFORMATION: transmembrane domain
NAME/KEY: SITE
LOCATION: (466)..(601)
OTHER INFORMATION: proline/glycine-rich portion of connecting region interrupted by
NAME/KEY: TURN
LOCATION: (510)..(513)
OTHER INFORMATION: tight turn recognition motif for internalization in coated pits
NAME/KEY: DOMAIN
LOCATION: (616)..(905)
OTHER INFORMATION: tyrosine kinase domain
US-09-140-378A-2

Query Match 7.9%; Score 84; DB 4; Length 913;
Best Local Similarity 22.7%; Pred. No. 1.9;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;
QY 7 NOTSPGATEDYSYGSWYIDEPQ-----GGXELQPEGEVPSCHT-SIPPGLYHACLASLSIL 61
DB 370 NNSPALGGTFFPAPWPPGPPPTNFSSLELEPRGQQPVAKEGSPTAILIGCLVAIILL 429
QY 62 VLLLLAMLV-----RRQLWPD-----CVRGRPGLPSPVDFL----- 93
DB 430 LLLIALLMLWRLHWRLLSKAERRVLEEELTVHLSVPGDTILNNRPGPREPPPYQPRP 489
QY 94 AGDRPRAVPAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
DB 490 RGNPPHSAPC-----VPNGSALLSNPAYRLLLATYARPPRPG---PPTPAW 534

RESULT 4
US-08-336-343A-2
Sequence 2, Application US/08336343A
Patent No. 5677144
GENERAL INFORMATION:
APPLICANT: Ullrich, Axel
APPLICANT: Alves, Frauke
TITLE OF INVENTION: CCK-2, A No. 5677144el Receptor Tyrosine Kinase
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/336,343A
FILING DATE: 08-NOV-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-065
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 919 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-336-343A-2

Query Match 7.9%; Score 84; DB 1; Length 919;
Best Local Similarity 22.7%; Pred. No. 1.9;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;
QY 7 NOTSPGATEDSYGSWYIDEPQ---GGXELQPEGEVPSCHT-SIPPGLYHACLASLSIL 61
Db 370 NNSPALGGTFFPAPWPPGPPPTNFSSLELEPRGQPVAKAEGSPTAILIGCLVAIILL 429
QY 62 VLLLLAMLV-----RRRLWPD-----CVRGRPLSPVDFL----- 93
Db 430 LLLIALLMRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPPPPYQPRP 489
QY 94 AGDRPRAVPAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 490 RGNPPHSAPC-----VPNGSALLSNPAYRLLLATYARPPRPGP---PPTPAW 534

RESULT 5
US-09-949-016-8366
Sequence 8366, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8366
LENGTH: 937
TYPE: PRT
ORGANISM: Human
US-09-949-016-8366

Query Match 7.9%; Score 84; DB 4; Length 937;
Best Local Similarity 22.7%; Pred. No. 1.9;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;
QY 7 NOTSPGATEDSYGSWYIDEPQ---GGXELQPEGEVPSCHT-SIPPGLYHACLASLSIL 61
Db 394 NNSPALGGTFFPAPWPPGPPPTNFSSLELEPRGQPVAKAEGSPTAILIGCLVAIILL 453
QY 62 VLLLLAMLV-----RRRLWPD-----CVRGRPLSPVDFL----- 93

Db 454 LLLIALLMRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPPPPYQPRP 513
QY 94 AGDRPRAVPAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 514 RGNPPHSAPC-----VPNGSALLSNPAYRLLLATYARPPRPGP---PPTPAW 558
RESULT 6
US-09-949-016-8367
Sequence 8367, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8367
LENGTH: 937
TYPE: PRT
ORGANISM: Human
US-09-949-016-8367

Query Match 7.9%; Score 84; DB 4; Length 937;
Best Local Similarity 22.7%; Pred. No. 1.9;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;
QY 7 NOTSPGATEDSYGSWYIDEPQ---GGXELQPEGEVPSCHT-SIPPGLYHACLASLSIL 61
Db 394 NNSPALGGTFFPAPWPPGPPPTNFSSLELEPRGQPVAKAEGSPTAILIGCLVAIILL 453
QY 62 VLLLLAMLV-----RRRLWPD-----CVRGRPLSPVDFL----- 93
Db 454 LLLIALLMRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPPPPYQPRP 513
QY 94 AGDRPRAVPAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 514 RGNPPHSAPC-----VPNGSALLSNPAYRLLLATYARPPRPGP---PPTPAW 558

RESULT 7
US-09-949-016-8368
Sequence 8368, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8368
LENGTH: 937
TYPE: PRT
ORGANISM: Human

APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/445,461
FILING DATE: 22-MAY-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170558
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/157563
FILING DATE: 23-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 854C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 913 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-445-461-4

Query Match 7.8%; Score 83; DB 3; Length 913;
Best Local Similarity 22.7%; Pred. No. 2.4;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

Qy 7 NQTSPGATEDSYGSWYIDEPQ----GGXELQPEGEVPSCH-TSIPPGLYHACLASLSIL 61
Db 370 NNSSPALGGTFPPAPWWPPGPPPTNFSLSLELEPRGQPVAKPEGSPTAILIGCLVAIILL 429

Qy 62 VLLLLAMLV-----RRQLWPD-----CVRGRPGLSPVDL----- 93
Db 430 LLLIALLMLWRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPGPREPPPYQEPRP 489

Qy 94 AGDRPRAPVAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 490 RGNPPHSAPC-----VPNGSALLSNPAYRLLATYARPPRPGP---PPTPAW 534

RESULT 12
US-09-223-490-4
Sequence 4, Application US/09223490
Patent No. 6825324
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
APPLICANT: Mark, Melanie R.
APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.

APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,314
FILING DATE: 22-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170558
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/157563
FILING DATE: 23-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 854C1D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 913 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-447-314-4

Query Match 7.8%; Score 83; DB 3; Length 913;
Best Local Similarity 22.7%; Pred. No. 2.4;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

Qy 7 NQTSPGATEDSYGSWYIDEPQ----GGXELQPEGEVPSCH-TSIPPGLYHACLASLSIL 61
Db 370 NNSSPALGGTFPPAPWWPPGPPPTNFSLSLELEPRGQPVAKPEGSPTAILIGCLVAIILL 429

Qy 62 VLLLLAMLV-----RRQLWPD-----CVRGRPGLSPVDL----- 93
Db 430 LLLIALLMLWRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPGPREPPPYQEPRP 489

Qy 94 AGDRPRAPVAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 490 RGNPPHSAPC-----VPNGSALLSNPAYRLLATYARPPRPGP---PPTPAW 534

RESULT 11
US-08-445-461-4
Sequence 4, Application US/08445461
Patent No. 6096527
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
APPLICANT: Mark, Melanie R.

STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/223,490
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170,558
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 854C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 913 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-09-223-490-4

Query Match 7.8%; Score 83; DB 4; Length 913;
Best Local Similarity 22.7%; Pred. No. 2.4;
Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;
QY 7 NQTSFGATEDSYSGSWYDEPQ---CGXELQPEGEVPSCH-TSIPPGLYHACLASLSIL 61
Db 370 NNSSPALGGTFFPPAPWPPGPPPTNFSSLELEPRGQOPVAKPEGSTAILIGCLVAIILL 429
QY 62 VLLLLAMLV-----RRQLWPD-----CVRGRGLPSPVDFL---- 93
Db 430 LLLIIALMLWRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPGRPPPYQEP RP 489
QY 94 AGDRPRAPVAAVFMVLLSSCLLLPDEDALPFLTLASAPSDGKTEAPRGAW 145
Db 490 RGNPPHSAPC----VNGSALLSNPAYRLLLATVAPRPPGPG---PPTPAW 534

RESULT 13
US-09-252-991A-30376
; Sequence 30376, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30376
; LENGTH: 429
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30376

Query Match 7.6%; Score 81; DB 4; Length 429;
Best Local Similarity 30.4%; Pred. No. 1.5;

Matches 56; Conservative 8; Mismatches 70; Indels 50; Gaps 9;
QY 33 LQPEGEVPSCHTSIPPGLYHACLASLSILVLLLLAMLVRRR---QLWPD---CVRGRPG 85
Db 83 LHPERHQPDHRHRRFP--VRSQRAERTIDGGHRPVRPVRRTSLQLWPDREERGIRGKPKQ 140
QY 86 LPSPVDFLAGDRPRAPVAAVFMVLLSSCLLLPDEDALP-----FLTASAPSDGKTE 139
Db 141 -----LGGIQPAAGSA-----LPRQADHRQRRLGLFL---SHPGQAGAPD 177
QY 140 AP-----RGAWKILGLFHYAALYYPLAACA---TAGHTAAHLLGSTLSWAHLGVQV 187
Db 178 VPHLPAGGEAGRYPHPPPGAFRPAALRQPAADPAPGRASGAAALLEGSRLLPRHLLHRAA 237
QY 188 WQRA 191
Db 238 GQRS 241

RESULT 14
US-09-252-991A-19381
; Sequence 19381, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19381
; LENGTH: 463
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19381

Query Match 7.6%; Score 80.5; DB 4; Length 463;
Best Local Similarity 29.0%; Pred. No. 1.8;
Matches 54; Conservative 14; Mismatches 57; Indels 61; Gaps 13;
QY 27 PGGXELQPEGEVPSCHTSIPPGLYHACLASLSILVLLLLAMLVRRRQLWPDVCVRGRP-- 84
Db 226 PLGGQWLADLGGHP-----AVFATLAVLLASLAALVV---PAWPET---RPLL 267
QY 85 -GLPSPVDF-----LAGDRP---RAVPAAVFMVLLSSLC-----LLLPDEDALPF----LT 127
Db 268 AGTPEPATLAIFFRVLADRPLQTRALLVAVLNVLVFSFYAAGPFMVGDLPGLGFGWIGLA 327
QY 128 LASAPSDG--KTEAPRGAWKI-----LGLFHYAALYYPLAACATAGHTAAHLLGST--- 177
Db 328 IAIAGSIGALLNRRLLPR-TWNSARRVRLGL-----ALAAAGATAQTLLAAVGYA 375
QY 178 --LSWA 181
Db 376 EGLYWA 381

RESULT 15
US-09-106-075A-86
; Sequence 86, Application US/09106075A
; Patent No. 6316250
; GENERAL INFORMATION:
; APPLICANT: Hjellev MD, Brian
; APPLICANT: Jenison, Steve
; TITLE OF INVENTION: Molecular Clones Producing Recombinant DNA Antigens of
; TITLE OF INVENTION: the HARDS Virus.
; FILE REFERENCE: 10312-8U1, Hjellev et al. (210312.0009)
; CURRENT APPLICATION NUMBER: US/09/106,075A


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; CURRENT FILING DATE: 1998-06-29
; PRIOR APPLICATION NUMBER: 08/210,762
; PRIOR FILING DATE: 1994-03-22
; PRIOR APPLICATION NUMBER: 08/141,035
; PRIOR FILING DATE: 1993-10-26
; PRIOR APPLICATION NUMBER: 08/120,096
; PRIOR FILING DATE: 1993-09-13
; PRIOR APPLICATION NUMBER: 08/111,519
; PRIOR FILING DATE: 1993-08-25
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 86
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Prospect Hill virus
; US-09-106-075A-86

Query Match
Best Local Similarity 7.5%; Score 80; DB 3; Length 433;
Matches 35; Conservative 21; Mismatches 55; Indels 34; Gaps 6;

Qy 23 YIDEPQGGKELQPEGEVPSCHTSIPPGLYHACLASLSILVLL-----LAMLVRRRLWPD 78
Db 178 YVSMPTAQSTMKAELTPGRFTIVCGLPFAQIMARNIISPMVGVIQFAFFVKD---WAD 234

Qy 79 CVRG-----RPLPS-PVDFLAGDRPRAVPAAVFMVLLSSLCLL-----LPDE 120
Db 235 KVKAFLDQKCPFLKAEPKPGQPAGEAEFLSSIR-----AYLMNRQAVLDETHLPDI 285

Qy 121 DALPFLTLASAPSDQDGKTEAPRGAW 145
Db 286 DALVELAASGDPTLPDSLENPHAAW 310
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Search completed: February 8, 2005, 13:42:10
Job time : 24.5458 secs

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QY 121 DALPFLTLASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSW 180
Db 121 DALPFLTLASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSW 180
QY 181 AHLGVQVWQRAECQPVPKI 199
Db 181 AHLGVQVWQRAECQPVPKI 199

RESULT 2
US-10-362-240-2
; Sequence 2, Application US/10362240
; Publication No. US20040185442A1
; GENERAL INFORMATION:
; APPLICANT: MAO, Yumin
; APPLICANT: XIE, Yi
; TITLE OF INVENTION: A NOVEL POLYPEPTIDE - HUMAN RETINOIC ACID-RESPONSIVE PROTEIN 53.5
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING THE SAME
; FILE REFERENCE: 011241.52054US
; CURRENT APPLICATION NUMBER: US/10/362,240
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: PCT/CN01/01252
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 00119715.0
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-362-240-2

Query Match 98.8%; Score 1048; DB 16; Length 487;
Best Local Similarity 99.0%; Pred. No. 5e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122
QY 122 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182
QY 182 HLGQVQVWQRAECQPVPKI 199
Db 183 HLGQVQVWQRAECQPVPKI 200

RESULT 3
US-09-759-056-2
; Sequence 2, Application US/09759056
; Patent No. US20020156252A1
; GENERAL INFORMATION:
; APPLICANT: Pennica, Diane
; APPLICANT: Smith, Victoria
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. US20020156252A1el STRA6 Polypeptides
; FILE REFERENCE: GENENT.2827A2
; CURRENT APPLICATION NUMBER: US/09/759,056
; CURRENT FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/197089
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/175849
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/228914
; PRIOR FILING DATE: 2000-08-29
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; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-759-056-2

Query Match 98.8%; Score 1048; DB 9; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122
QY 122 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182
QY 182 HLGQVQVWQRAECQPVPKI 199
Db 183 HLGQVQVWQRAECQPVPKI 200

RESULT 4
US-09-901-812-2
; Sequence 2, Application US/09901812
; Patent No. US20020173461A1
; GENERAL INFORMATION:
; APPLICANT: Pennica, Diane
; APPLICANT: Polakis, Paul
; APPLICANT: Szeto, Wayne
; TITLE OF INVENTION: UPREGULATION OF TUMOR ANTIGENS TO
; TITLE OF INVENTION: ENHANCE EFFICACY OF IMMUNOTHERAPY
; FILE REFERENCE: GENENT.083A
; CURRENT APPLICATION NUMBER: US/09/901,812
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/228,914
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 09/759,056
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/175,849
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/197,089
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-901-812-2

Query Match 98.8%; Score 1048; DB 9; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122
QY 122 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTASAPSDGKTEAPRGAWKIILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182
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QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 5

US-09-863-776-67
; Sequence 67, Application US/09863776
; Publication No. US20030198953A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Majumder, Kumud
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Mishra, Vishnu
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spaderna, Steven K
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Li, Li
; APPLICANT: Taupier, Raymond J
; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-020
; CURRENT APPLICATION NUMBER: US/09/863,776
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 09/540,763
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: 60/206,679
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/206,688
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/206,829
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/207,748
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: 60/207,798
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: 60/208,263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 60/208,831
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/209,451
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: 60/210,060
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: 60/219,507
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: 60/221,337
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/221,927
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/263,135
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,688
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/263,694
; PRIOR FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 67
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-863-776-67

Query Match 98.8%; Score 1048; DB 10; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNOTSPGATEDSYSGSWYIDEPQCGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQCGGELOPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLAMLVRRRQIWPDCVGRPGIPLSPVDFLAGDRPRAVPAAVFVLLSSLCLLLPDED 121
Db 63 VLLLLAMLVRRRQIWPDCVGRPGIPLSPVDFLAGDRPRAVPAAVFVLLSSLCLLLPDED 122
QY 122 ALPFLTILASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSLTSLWA 181
Db 123 ALPFLTILASAPSDQKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSLTSLWA 182
QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 6

US-10-227-884-80
; Sequence 80, Application US/10227884
; Publication No. US20030027988A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C79
; CURRENT APPLICATION NUMBER: US/10/227,884
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17

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; PRIOR APPLICATION NUMBER: 60/089905
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090691
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/095302
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095318
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095916
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/096146
; PRIOR FILING DATE: 1998-08-11
; PRIOR APPLICATION NUMBER: 60/096791
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 60/097986
; PRIOR FILING DATE: 1998-08-26
; PRIOR APPLICATION NUMBER: 60/098544
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099803
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099811
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099812
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099816
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/100038
; PRIOR FILING DATE: 1998-09-11
; PRIOR APPLICATION NUMBER: 60/100385
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100390
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100627
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100848
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/100919
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/101477
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101738
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101741
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101786
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: 60/101916
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101922
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/106178
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106248
; PRIOR FILING DATE: 1998-10-29
; PRIOR APPLICATION NUMBER: 60/106464
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 60/106905
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: 60/108787
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 60/108801

;
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 60/108849
; PRIOR FILING DATE: 1998-11-18
; PRIOR APPLICATION NUMBER: 60/112422
; PRIOR FILING DATE: 1998-12-15
; PRIOR APPLICATION NUMBER: 60/113296
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113605
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113621
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/115558
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/115565
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/115733
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/119549
; PRIOR FILING DATE: 1999-02-10
; PRIOR APPLICATION NUMBER: 60/123618
; PRIOR FILING DATE: 1999-03-10
; PRIOR APPLICATION NUMBER: 60/125259
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: 60/125775
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/126773
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: 60/127887
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/130232
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131022
; PRIOR FILING DATE: 1999-04-26
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131445
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 60/134287
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/140650
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/140723
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/141037
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/144758
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/145698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: 60/146222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: 60/146963
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/149320
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/149638
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/151733
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: 60/164418
; PRIOR FILING DATE: 1999-11-09
; PRIOR APPLICATION NUMBER: 60/166361
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 60/169445
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169835

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRLWPDVGRGRGLSPVDFLAGDRPRAVPAAVFVWLLSSCLLLPDED 121
Db 63 VLLLLAMLVRRRLWPDVGRGRGLSPVDFLAGDRPRAVPAAVFVWLLSSCLLLPDED 122
QY 122 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTLASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSTLSWA 182
QY 182 HLGVOVQWQRAECPQVPKI 199
Db 183 HLGVOVQWQRAECPQVPKI 200

RESULT 7

US-10-230-163-80
; Sequence 80, Application US/10230163
; Publication No. US20030036635A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C96
; CURRENT APPLICATION NUMBER: US/10/230,163
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086392

; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089905
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090691
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/095302
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095318
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095916
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/096146
; PRIOR FILING DATE: 1998-08-11
; PRIOR APPLICATION NUMBER: 60/096791
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 60/097986
; PRIOR FILING DATE: 1998-08-26
; PRIOR APPLICATION NUMBER: 60/098544
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099803
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099811
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099812
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099816
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/100038
; PRIOR FILING DATE: 1998-09-11
; PRIOR APPLICATION NUMBER: 60/100385
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100390
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100627
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100848
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/100919
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/101477
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101738
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101741
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101786
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: 60/101916
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101922
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/106178
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106248
; PRIOR FILING DATE: 1998-10-29
; PRIOR APPLICATION NUMBER: 60/106464
; PRIOR FILING DATE: 1998-10-30

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLLMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLLMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122

Qy 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 9
US-10-218-631-80
; Sequence 80, Application US/10218631
; Publication No. US20030045687A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C14
; CURRENT APPLICATION NUMBER: US/10/218,631
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-218-631-80

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLLMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLLMLVRRRQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122

Qy 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 10
US-10-230-414-80
; Sequence 80, Application US/10230414
; Publication No. US20030050448A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C98
; CURRENT APPLICATION NUMBER: US/10/230,414
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-230-414-80

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122
QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 182
QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 11
US-10-232-224-80
; Sequence 80, Application US/10232224
; Publication No. US20030065147A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C111
; CURRENT APPLICATION NUMBER: US/10/232,224
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-232-224-80

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNOTSPGATEDSYSGSWYIDEPQGGELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121

Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122
QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181
Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 182
QY 182 HLGQVQWQRAECPQVPKI 199
Db 183 HLGQVQWQRAECPQVPKI 200

RESULT 12
US-10-216-159A-80
; Sequence 80, Application US/10216159A
; Publication No. US20030069397A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C6
; CURRENT APPLICATION NUMBER: US/10/216,159A
; CURRENT FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-216-159A-80

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 SQPAGNOTSPGATEDSYSGSWYIDEPQGGELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDSYSGSWYIDEPQGGELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121
Db 63 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122

QY 122 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 182
QY 182 HLGQVQWQRAECQVPVKI 199
Db 183 HLGQVQWQRAECQVPVKI 200

RESULT 13
US-10-218-849-80
; Sequence 80, Application US/10218849
; Publication No. US20030073814A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C11
; CURRENT APPLICATION NUMBER: US/10/218,849
; CURRENT FILING DATE: 2002-08-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-218-849-80

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAFVFMVLLSSLCLLLPDED 121
Db 63 VLLLLAMLVRRRLWPCVGRPGPLSPVDFLAGDRPRAVPAAFVFMVLLSSLCLLLPDED 122
QY 122 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 181
Db 123 ALPFLTLASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 182
QY 182 HLGQVQWQRAECQVPVKI 199
Db 183 HLGQVQWQRAECQVPVKI 200

RESULT 14
US-10-227-873-80
; Sequence 80, Application US/10227873
; Publication No. US20030073816A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.

; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C72
; CURRENT APPLICATION NUMBER: US/10/227,873
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089905
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090691
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/095302
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095318
; PRIOR FILING DATE: 1998-08-04
; PRIOR APPLICATION NUMBER: 60/095916
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/096146
; PRIOR FILING DATE: 1998-08-11
; PRIOR APPLICATION NUMBER: 60/096791
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 60/097986
; PRIOR FILING DATE: 1998-08-26
; PRIOR APPLICATION NUMBER: 60/098544
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09

APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3530P1C78
CURRENT APPLICATION NUMBER: US/10/227,883
CURRENT FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
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PRIOR FILING DATE: 1997-10-28
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PRIOR FILING DATE: 1997-12-17
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PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/084441
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PRIOR FILING DATE: 1998-05-13
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PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091982
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PRIOR APPLICATION NUMBER: 60/095302
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PRIOR APPLICATION NUMBER: 60/095318
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PRIOR APPLICATION NUMBER: 60/097986
PRIOR FILING DATE: 1998-08-26
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PRIOR APPLICATION NUMBER: 60/100385
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PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100627
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PRIOR APPLICATION NUMBER: 60/106178
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PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
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PRIOR APPLICATION NUMBER: 60/115565
PRIOR FILING DATE: 1999-01-12
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PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
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PRIOR FILING DATE: 1999-03-19

; PRIOR APPLICATION NUMBER: 60/125775
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/126773
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: 60/127887
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/130232
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; PRIOR APPLICATION NUMBER: 60/131022
; PRIOR FILING DATE: 1999-04-26
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; PRIOR APPLICATION NUMBER: 60/131445
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; PRIOR APPLICATION NUMBER: 60/134287
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/140650
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/140723
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/141037
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/144758
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/145698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: 60/146222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: 60/146963
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; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 60/169445
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169835

Query Match 98.8%; Score 1048; DB 14; Length 667;
Best Local Similarity 99.0%; Pred. No. 7.3e-95;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNQTSPGATEDSYSGSWYIDEPQGGKXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3 SQPAGNQTSPGATEDSYSGSWYIDEPQGGKXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62
Qy 62 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 121
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
63 VLLLLAMLVRRRQLWPDVCVRGRLPSVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDED 122
Qy 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPPLAACATAGHTAAHLLGSTLSWA 181
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
123 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYYPPLAACATAGHTAAHLLGSTLSWA 182
Qy 182 HLGQVQWQRAECPQVPKI 199
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
183 HLGQVQWQRAECPQVPKI 200

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:29:35 ; Search time 19.3683 Seconds
(without alignments)
988.580 Million cell updates/sec

Title: US-09-816-653A-2
Perfect score: 1061
Sequence: 1 MSQPAGNQTSPGATEDSYG.....WAHLGVQVWQRAECPQVPKI 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79:*
1: Pirl:*
2: Pirl2:*
3: Pirl3:*
4: Pirl4:*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	86.5	8.2	757	2 F87304	beta-N-acetylhexos
2	85.5	8.1	380	2 S35785	glycoprotein I - b
3	84.5	8.0	335	2 T36304	probable anthranil
4	84	7.9	913	2 A48280	receptor tyrosine
5	83	7.8	1172	2 T36053	probable ABC-type
6	80.5	7.6	385	2 E83506	probable MFS trans
7	80	7.5	433	1 VHVUPH	nucleocapsid prote
8	80	7.5	876	2 A49508	protein-tyrosine k
9	80	7.5	921	2 G02326	transcription fact
10	79.5	7.5	249	1 S47153	type IV prepilin p
11	79.5	7.5	577	2 S77715	cytochrome c-type
12	79	7.4	463	2 C47301	virB6 homolog - Bo
13	79	7.4	910	2 A53137	tyrosine kinase re
14	78.5	7.4	477	2 H83588	probable MFS trans
15	78.5	7.4	532	2 JC5412	epidermal growth f
16	78.5	7.4	3519	2 S43048	polyketide synthas
17	78	7.4	419	2 JQ2254	farnesyl-diphospha
18	77.5	7.3	579	2 S35237	cytochrome c-type
19	77	7.3	521	2 AF3287	thiamine transport
20	76.5	7.2	221	2 B48266	protein-tyrosine k
21	76	7.2	394	2 A55045	probable 3-hydroxy
22	76	7.2	666	2 F83340	hypothetical prote
23	76	7.2	709	2 F75584	hypothetical prote
24	75.5	7.1	400	2 T35334	probable membrane
25	75.5	7.1	454	2 T10525	cyclin B1b-11 - ye
26	75.5	7.1	655	1 A42420	L-iduronidase (EC
27	75	7.1	211	2 T09498	cytochrome c bioge
28	75	7.1	230	2 S72714	Lepb1170 F2 64 pro
29	75	7.1	668	2 T01685	crp1 protein - mai

30	74.5	7.0	425	2 C87619	hypothetical prote
31	74	7.0	320	2 A82449	conserved hypothet
32	73.5	6.9	233	2 T47136	hypothetical prote
33	73.5	6.9	300	2 D83487	hypothetical prote
34	73.5	6.9	636	2 JW0047	class I cytokinase
35	73.5	6.9	1174	2 AH0663	probable pyruvate-
36	73.5	6.9	1201	2 A83007	hypothetical prote
37	73	6.9	411	2 D72588	hypothetical prote
38	73	6.9	473	2 T03611	cyclin, B-type - c
39	73	6.9	633	2 F84564	probable protein k
40	73	6.9	739	2 A83015	primosomal protein
41	73	6.9	786	2 F70735	hypothetical prote
42	72.5	6.8	176	2 B83199	hypothetical prote
43	72.5	6.8	258	2 S75950	hypothetical prote
44	72.5	6.8	529	2 C70545	hypothetical prote
45	72.5	6.8	636	1 VCVWFS	env polyprotein -

ALIGNMENTS

RESULT 1

F87304
beta-N-acetylhexosaminidase, probable [imported] - Caulobacter crescentus
C;Species: Caulobacter crescentus
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004
C;Accession: F87304
R;Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolo
n, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A;Title: Complete Genome Sequence of Caulobacter crescentus.
A;Reference number: A87249; MUID:21173698; PMID:11259647
A;Accession: F87304
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-757 <STO>
A;Cross-references: UNIPROT:Q9AAZ5; GB:AE005673; NID:gl3421618; PIDN:AAK22434.1; GSPDB:
C;Genetics:
A;Gene: CC0447

Query Match	8.2%	Score	86.5;	DB	2;	Length	757;
Best Local Similarity	30.6%	Pred. No.	3.7;				
Matches	49;	Conservative	16;	Mismatches	60;	Indels	35;
Gaps	9;						
QY	62	VLLLLAMLVRR-RQLWPCVGRGRLPSVDVFLAGDRP-----RAVPA	103				
Db	65	VALQLADLIQRSRGFRPKVVEGPPAADAIV--LTREGPAGEAYKLDINAKGATIAAKRA	122				
QY	104	AVFMVLLSSICLLLPDEDALPFLTLASAPSDQDKTEAPRGAWKILGLFHYAALYY----P	159				
Db	123	GLFYGAMSLWQLATPDEAKGPVALLAASIE-----DAPFAWR--GLMVD SARHYQSLDT	175				
QY	160	LAACATAGHTAAHLLGSTLSWAHLGVQVWQRAECPQVPKI	199				
Db	176	LKAVIDA--MAAHKL-NTFHWHLVDDQGW-RLEIKKYPKL	211				

RESULT 2

S35785
glycoprotein I - bovine herpesvirus 1
C;Species: bovine herpesvirus 1
C;Date: 09-Jun-1994 #sequence_revision 12-May-1995 #text_change 09-Jul-2004
C;Accession: S35785
R;Audonnet, J.
submitted to the EMBL Data Library, June 1993
A;Reference number: S35782
A;Accession: S35785
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-380 <AUD>
A;Cross-references: UNIPROT:Q08102; EMBL:Z23068; NID:g312185; PIDN:CAA80605.1; PID:g312
C;Superfamily: pseudorabies virus glycoprotein gp63

C;Keywords: glycoprotein

	Query Match	8.1%;	Score 85.5;	DB 2;	Length 380;	
	Best Local Similarity	27.6%;	Pred. No. 2.2;			
	Matches	37;	Conservative	12;	Mismatches	38; Indels 47; Gaps 6;
QY	4	PAGNQTS	PGATEDSYSGSWYIDEPQG	XELQPEGEVPSCHT	SIPPGLYHACLAS-----LS	59
			:	:	:	
Db	256	PAGPTASPAASPRAFSA-----AAPAAAQA	PGDTPA-----RFRQLASILVPLC	302		
			:	:	:	
QY	60	ILVLLLLLAM-----LVRRRL-----WPDCVGRGPRGLSPV	90			
		: :	: :	:	:	
Db	303	VLVLLLLALCAATVNLCALRRLLPCSRRVYKPTCAACGSCTCAGRPP	PCRGAAPSAPTV	362		
			:	:	:	
QY	91	DFLAGDRPRAVPAA	104			
		:				
Db	363	VAL-GSRPKAPPLA	375			

RESULT 3
T36304
probable anthranilate phosphoribotransferase - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: T36304
R;Saunders, D.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, March 1999
A;Reference number: Z21604
A;Accession: T36304
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-335 <SAU>
A;Cross-references: UNIPROT:Q9Z4W9; EMBL:AL035654; PIDN:CAB38583.1; GSPDB:GN00070; SCOE
A;Experimental source: strain A3(2)
C;Genetics:
A;Gene: trpD2; SCOE:SCB8.05C
C;Superfamily: anthranilate phosphoribosyltransferase; trpD homology

	Query Match	8.0%;	Score 84.5;	DB 2;	Length 335;
	Best Local Similarity	30.8%;	pred. No. 2.4;		
	Matches 36;	Conservative	10;	Mismatches 42;	Indels 29;
				Gaps 5;	
QY	81	RRRPLSPVDFLAGDRPRAVPAAVFMVLLSSLLCLLLPDEDALPFLTLASAPSDGKTEA	140		
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				:	:
Db	247	RSRPG-----DLAGGD--RAVNAAVLRRVLAG-----	283		
				:	:
				:	:
QY	141	PRGAWKILGLFHYAALYPLAACATAGHTAAHLGLSTLSWAHLGVQVWQRAECPQVP	197		
				:	:
				:	:
Db	284	AAAALRVAGVAGTWSDGRLRLAASAVDGGAAAGLLD---RWAHAS---WQRAADLVEVP	334		
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				:	:

RESULT 4
A48280
receptor tyrosine kinase - human
C:Species: Homo sapiens (man)
C:Date: 31-May-1996 #sequence_revision 31-May-1996 #text_change 09-Jul-2004
C:Accession: A48280
R:Johnson, J.D.; Edman, J.C.; Rutter, W.J.
Proc. Natl. Acad. Sci. U.S.A. 90, 5677-5681, 1993
A:Title: A receptor tyrosine kinase found in breast carcinoma cells has an extracellular
A:Reference number: A48280; MUID:93296201; PMID:8390675
A:Accession: A48280
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-913 <RES>
A:Cross-references: UNIPROT:Q08345; GB:L11315; NID:G403386; PIDN:AAA02866.1; PID:G403387
C:Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-ter
C:Keywords: ATP
F:30-185/Domain: discoidin I amino-terminal homology <DN1>
F:608-912/Domain: protein kinase homology <KIN>
F:616-624/Region: protein kinase ATP-binding motif

Query Match 7.9%; Score 84; DB 2; Length 913;

[illegible]

RESULT 5
T36053
probable ABC-type transport protein cydCD - Streptomyces coelicolor
C/Species: Streptomyces coelicolor
C/Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C/Accession: T36053
R/Saunders, D.C.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.
submitted to the EMBL Data Library, November 1998
A/Reference number: Z21595
A/Accession: T36053
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: DNA
A/Residues: 1-1172 <SAU>
A/Cross-references: UNIPROT:Q9ZBY5; EMBL:AL034355; PIDN:CAA22219.1; GSPDB:GN00070; SCOEI
A/Experimental source: strain A3(2)
C/Genetics:
A/Gene: cydCD; SCOEDB:SCD78.14
C/Superfamily: Mycobacterium tuberculosis probable ABC transporter Rv0194; ATP-binding C

	Query Match	7.8%;	Score 83;	DB 2;	Length 1172;	
	Best Local Similarity	31.5%;	Pred. No. 12;			
	Matches	45;	Conservative	12;	Mismatches	68; Indels 18; Gaps 5;
QY	55	LASLSILVLLLLAMLVRRRQLWPDCVRGPFGLPSPVDFLAGDRPRAVPAAFVMVLSSLC	114			
Dδ	874	LAAFEAVLGLPLAVQYQR-VRRSAERVVEVLDAPVPREPEVPRQAPATFPFVVVEGLA	932			
QY	115	LLLP--DEDALPFLT-----ASAPSQDGKTEAPRGAWKILGLFHVAALYYPLA--	161			
Dδ	933	ARHPGQDRDALAGLDLTLEQGRRVAVVGPSGSKTTL---AQVLLRF LDSAAGSYTLAGV	989			
QY	162	-ACATAGHTAAHLLGSTLSWAHL	183			
Dδ	990	DAYALAGDDVRRRLVGLCAODAHL	1012			

RESULT 6
E83506
probable MFS transporter PA1108 [imported] - *Pseudomonas aeruginosa* (strain PA01)
C;Species: *Pseudomonas aeruginosa*
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C;Accession: E83506
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; Br
adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,
.; Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunistic patho
A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: E83506
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-385 <STO>
A;Cross-references: UNIPROT:Q9I4M7; GB:AE004541; GB:AE004091; NID:g99a7024; PIDN:AAG0449
A;Experimental source: strain PA01
C;Genetics:
A;Gene: PA1108

Query Match 7.6%; Score 80.5; DB 2; Length 385;
Best Local Similarity 29.0%; Pred. No. 6.6;
Matches 54; Conservative 14; Mismatches 57; Indels 61; Gaps 13;
Qy 27 PQGGXELQGEVPSCHTSIPPGLYHACLASLSILVLLLLAMLVRRRLQWPCVGRGP-- 84
Db 148 PLGGOWLADLGGHP-----AVFATLAVLLASLAALV---PAWPET---RPLL 189
Qy 85 -GLPSPVDF-----LAGDRP---RAVPAAVFMVLLSSLC-----LLLPDEDALPF---LT 127
Db 190 AGTPEPATLAIFRRVLADRPLQTRALLVAVNLVFSFYAAGPFMVGDLPGLGFGWIGLA 249
Qy 128 LASAPSDG--KTEAPRGAWKI-----LGLFHYAALYPLAACATAGHTAAHLLGST--- 177
Db 250 IAIAGSLGALLNRRLP--TWSARRVRLGL-----ALAAAGATAQTLLAAVGYA 297
Qy 178 --LSWA 181
Db 298 EGLYWA 303
RESULT 7
VHVUPH
nucleocapsid protein N - Prospect Hill virus (strain PHV-1)
N;Alternate names: nucleoprotein N
C;Species: Prospect Hill virus
C;Date: 30-Jun-1991 #sequence_revision 30-Jun-1991 #text_change 09-Jul-2004
C;Accession: A34681
R;Parrington, M.A.; Kang, C.Y.
Virology 175, 167-175, 1990
A;Title: Nucleotide sequence analysis of the S genomic segment of Prospect Hill virus: a
A;Reference number: A34681; MUID:90177212; PMID:2309440
A;Accession: A34681
A;Molecule type: genomic RNA
A;Residues: 1-433 <PAR>
A;Cross-references: UNIPROT:P22047
C;Genetics:
A;Gene: N
A;Map position: segment S
C;Superfamily: Hantaan virus nucleocapsid protein
C;Keywords: nucleocapsid; nucleoprotein
Query Match 7.5%; Score 80; DB 1; Length 433;
Best Local Similarity 24.1%; Pred. No. 8.4;
Matches 35; Conservative 21; Mismatches 55; Indels 34; Gaps 6;
Qy 23 YIDEPQGGXELQGEVPSCHTSIPPGLYHACLASLSILVLL---LAMLVRRRLQWPD 78
Db 178 YVSMPTAQSTWKAELTPGRFTIVCGLFPAQIMARNIISPMVGIVGFAFFVKD---WAD 234
Qy 79 CVRG-----RPLPS-PVDFLAGDRPRAVPAVFMVLLSSLCLL---LPDE 120
Db 235 KVKAFLDKCPFLKAEPRPGPAGEAEFLSSIR-----AYLMNRQAVLDETHLPDI 285
Qy 121 DALPFLTLASAPSDGKTEAPRGAW 145
Db 286 DALVELAASGDPTLPDSLENPHAAW 310
RESULT 8
A49508
protein-tyrosine kinase (EC 2.7.1.112) trke precursor - human
C;Species: Homo sapiens (man)
C;Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: A49508; I38358; S37402
R;Di Marco, E.; Cutuli, N.; Guerra, L.; Cancedda, R.; De Luca, M.
J. Biol. Chem. 268, 24290-24295, 1993
A;Title: Molecular cloning of trke, a novel trk-related putative tyrosine kinase recepto
A;Reference number: A49508; MUID:94043265; PMID:8226977
A;Accession: A49508
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-876 <DIA>

A;Cross-references: UNIPROT:Q08345; EMBL:X74979; NID:G400462; PIDN:CAA52915.1; PID:G4004
C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-ter
C;Keywords: ATP; phosphotransferase; tyrosine-specific protein kinase
F;30-185/Domain: discoidin I amino-terminal homology <DN1>
F;571-875/Domain: protein kinase homology <KIN>
F;579-587/Region: protein kinase ATP-binding motif
Query Match 7.5%; Score 80; DB 2; Length 876;
Best Local Similarity 20.6%; Pred. No. 17;
Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;
Qy 7 NQTSFGATEDYSYGSWYIDEPQ-----GGXELQGEVPSCHT-SIPPGLYHACLASLSIL 61
Db 370 NNSSPALGGTFPPAPWPPGPPPTWFSLSLELEPRGQOPVAKAGSPTAILIGCLVAIILL 429
Qy 62 VLLLLAMLV-----RRRLWPD-----CVRGRPGLPSPVDFLAGDR 97
Db 430 LLLIALLMLWRLHWRRLLSKAERRVLEEELTVHLSVPGDTILINNRRPGPREPPY-QEPR 488
Qy 98 PRAVPAAVFMVLLSSLC-----LLPDEDALPFLTLASAPSDGKTEAPRGAWKI 147
Db 489 PRGNPPH-----SAPCVPNGSAYSGDYMEPEKPGAPLL---PPPPQN----- 527
Qy 148 LGLFHYAALYPLAACATAGHTAA 171
Db 528 -SVPHYAEADIVTLQGVGTGNTYA 550
RESULT 9
G02326
transcription factor NFAT1 isoform B - human
C;Species: Homo sapiens (man)
C;Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 09-Jul-2004
C;Accession: G02326
R;Luo, C.
submitted to the EMBL Data Library, December 1995
A;Reference number: H01056
A;Accession: G02326
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-921 <LUO>
A;Cross-references: UNIPROT:Q13469; EMBL:U43341; NID:g1353773; PIDN:AAC50886.1; PID:g13
C;Genetics:
A;Gene: NFAT1
Query Match 7.5%; Score 80; DB 2; Length 921;
Best Local Similarity 23.5%; Pred. No. 18;
Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;
Qy 3 QPAGNQTSPGATEDYSYGSWYIDEPQGGX-----ELOPEGEV-PSCHTSIPPGLYHAC 54
Db 240 RPASRSSPGAKRRHSCAEALVALPPGASPQRSRSPSPSSHVAPQDHGS-PAG--YPP 296
Qy 55 LASLSILVLLLLAMLVRR-----RQLW-----PDCVGRGP---GLP---SPVDFLA--- 94
Db 297 VAGSAVINDALNSLATDSCGIPPKWMTSPDPSVSAAPSKAGLPRHIYPAVEFLGPCE 356
Qy 95 -GDRPRAVPAVFMVLLSSLCLLLPDEDALPFLTL---ASAP-----SQDG----- 136
Db 357 QGERRNSAPESILLVPPTWPKPLVP---AIPICSIPTVASLPPLPPLSSQSGSYELRIE 413
Qy 137 -----KTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWAHLGV 185
Db 414 VQPKPHRAHYETEGSRGAVK-----AFTGGHPVQLHG-YMENKPLGL 456
Qy 186 QVW 188
Db 457 QIF 459
RESULT 10
S47153
type IV prelin peptidase (EC 3.4.99.-) BfpP - Escherichia coli

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:21:20 ; Search time 87.3473 Seconds
(without alignments)
1166.650 Million cell updates/sec

Title: US-09-816-653A-2
Perfect score: 1061
Sequence: 1 MSQPAGNQTSPGATEDYSYG.....WAHLGVQVWQRAECPQVPKI 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_03:.*
1: uniprot_sprot:.*
2: uniprot_trembl:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1048	98.8	667	2 Q8TB21	Q8tb21 homo sapien
2	1048	98.8	667	2 Q9BX79	Q9bx79 homo sapien
3	1048	98.8	708	2 Q7Z3U9	Q7z3u9 homo sapien
4	986.5	93.0	658	2 Q9BX78	Q9bx78 homo sapien
5	745	70.2	159	2 Q6PJF8	Q6pjf8 homo sapien
6	697	65.7	670	2 Q7O491	Q7o491 mus musculu
7	697	65.7	670	2 Q6DIA8	Q6dia8 mus musculu
8	488	46.0	560	2 Q7L9G1	Q7l9g1 homo sapien
9	427	40.2	137	2 Q8C442	Q8c442 mus musculu
10	337	31.8	238	2 Q6DGZ6	Q6dgz6 brachydanio
11	99.5	9.4	293	2 Q7WE26	Q7we26 bordetella
12	96.5	9.1	293	2 Q7W325	Q7w325 bordetella
13	96.5	9.1	441	2 Q6ZNR9	Q6znr9 homo sapien
14	90.5	8.5	840	2 Q7N1K1	Q7nik1 gloeobacter
15	90.5	8.5	2527	2 Q7W6G2	Q7w6g2 bordetella
16	90	8.5	263	1 Y8K6_ENCCU	Q8su10 encephalico
17	89.5	8.4	750	2 Q9YQ39	Q9yq39 suid herpes
18	88.5	8.3	435	2 Q854B3	Q854b3 mycobacteri
19	87.5	8.2	318	2 Q7NTK1	Q7ntk1 chromobacte
20	87.5	8.2	336	2 Q94LD3	Q94ld3 oryza sativ
21	87.5	8.2	413	2 Q8XRVS	Q8xrv5 ralstonia s
22	87	8.2	848	2 Q84SK5	Q84sk5 oryza sativ
23	86.5	8.2	757	2 Q9AAZ5	Q9aaZ5 caulobacter
24	85.5	8.1	380	1 VGLI_BHV1S	Q08102 bovine herp
25	85.5	8.1	569	2 Q8Y1X8	Q8ylx8 ralstonia s
26	85	8.0	398	2 Q73UR0	Q73ur0 mycobacteri
27	84.5	8.0	335	1 TRD2_STRCO	Q9z4w9 streptomyc
28	84.5	8.0	382	2 Q39505	Q39505 bovine herp
29	84.5	8.0	382	2 Q76PFO	Q76pf0 bovine herp
30	84.5	8.0	730	2 Q93QX7	Q93qx7 corynebacte
31	84.5	8.0	2527	2 Q7WID3	Q7wid3 bordetella

Q6zja8 oryza sativ
Q7yr43 pan troglod
Q08345 h epithelia
Q767m4 sus scrofa
Q6z576 oryza sativ
P56261 rattus norv
Q7wmz6 bordetella
Q72hn1 thermus the
Q9zby5 streptomyc
Q36437 lasaea sp.
Q6pzd9 mus musculu
Q7wbh4 bordetella
Q9bxd4 homo sapien
Q7nt97 chromobacte

ALIGNMENTS

RESULT 1

Q8TB21
ID Q8TB21 PRELIMINARY; PRT; 667 AA.
AC Q8TB21;
DT 01-JUN-2002 (Tremblrel. 21, Created)
DT 01-JUN-2002 (Tremblrel. 21, Last sequence update)
DT 01-OCT-2002 (Tremblrel. 22, Last annotation update)
DE Stimulated by retinoic acid gene 6.
GN Name=PLJ12541;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski A.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025256; AAH25256.1;
SQ SEQUENCE 667 AA; 73532 MW; 120685F4635CB0E5 CRC64;

Query Match 98.8%; Score 1048; DB 2; Length 667;
Best Local Similarity 99.0%; Pred. No. 6.9e-88;
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNQTSPGATEDYSYGSWIDEPQGGXELQGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNQTSPGATEDYSYGSWIDEPQGGXELQGEVPSCHTSIPPGLYHACLASLSIL 62
QY 62 VLLLLAMLVRRRQLWPDCVGRGRLPSVDFLAGDRPRAVPAVFMVLLSSLLCLLPDED 121

Db 63 VLLLLLAVRRRQLWPCVGRGPGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122

QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181

Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 182

QY 182 HLGQVQWQRAECQVQPKI 199

Db 183 HLGQVQWQRAECQVQPKI 200

RESULT 2

Q9BX79 ID Q9BX79 PRELIMINARY; PRT; 667 AA.

AC Q9BX79; Q9H9U8;

DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)

DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)

DE STRA6 isoform 1.

GN ORFNames=UNQ3126;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Szeto W., Jiang W., Tice D.A., Rubinfeld B., Hollingshead P.G.,

RA Fong S.E., Dugger D.L., Pham T., Yansura D.G., Wong T.A.,

RA Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B.,

RA Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P.,

RA Pennica D.;

RT "Overexpression of the retinoic acid-responsive gene Stra6 in human

RT cancers and its synergistic induction by Wnt-1 and retinoic acid.";

RL Cancer Res. 0:0-0(2001).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,

RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,

RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,

RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,

RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,

RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,

RA Godowski P.;

RT "The secreted protein discovery initiative (SPDI), a large-scale

RT effort to identify novel human secreted and transmembrane proteins: a

RT bioinformatics assessment.";

RL Genome Res. 13:2265-2270(2003).

DR EMBL; AF352728; AAK30289.1; --

DR EMBL; AY359089; AAK89447.1; --

SQ SEQUENCE 667 AA; 73502 MW; D20840A46998BA2E CRC64;

Query Match 98.8%; Score 1048; DB 2; Length 667;

Best Local Similarity 99.0%; Pred. No. 6.9e-88;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNOTSPGATEDSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Db 3 SQPAGNOTSPGATEDSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

QY 62 VLLLLLAVRRRQLWPCVGRGPGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121

Db 63 VLLLLLAVRRRQLWPCVGRGPGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122

QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181

Db 123 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 182

QY 182 HLGQVQWQRAECQVQPKI 199

Db 183 HLGQVQWQRAECQVQPKI 200

RESULT 3

Q7Z3U9 ID Q7Z3U9 PRELIMINARY; PRT; 708 AA.

AC Q7Z3U9;

DT 01-OCT-2003 (TrEMBLrel. 25, Created)

DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)

DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DE Hypothetical protein DKFZp686P1959 (Fragment).

GN Name=DKFZp686P1959;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Human endometrium;

RA Poustka A., Albert R., Moosmayer P., Schupp I., Wellenreuther R.,

RA Mewes H.W., Weil B., Amid C., Oeanger A., Fobo G., Han M., Wiemann S.;

RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL; BX537413; CAD97655.1; --

KW Hypothetical protein.

FT NON TER 1

SQ SEQUENCE 708 AA; 77825 MW; DB88B84AEAD286ED CRC64;

Query Match 98.8%; Score 1048; DB 2; Length 708;

Best Local Similarity 99.0%; Pred. No. 7.3e-88;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SQPAGNOTSPGATEDSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Db 44 SQPAGNOTSPGATEDSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 103

QY 62 VLLLLLAVRRRQLWPCVGRGPGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121

Db 104 VLLLLLAVRRRQLWPCVGRGPGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 163

QY 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSLTSLWA 181

Db 164 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSLTSLWA 223

QY 182 HLGQVQWQRAECQVQPKI 199

Db 224 HLGQVQWQRAECQVQPKI 241

RESULT 4

Q9BX78 ID Q9BX78 PRELIMINARY; PRT; 658 AA.

AC Q9BX78;

DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)

DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)

DE STRA6 isoform 2.

GN ORFNames=UNQ3126;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Szeto W., Jiang W., Tice D.A., Rubinfeld B., Hollingshead P.G.,

RA Fong S.E., Dugger D.L., Pham T., Yansura D.G., Wong T.A.,

RA Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B.,

RA Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P.,

RA Pennica D.;

RT "Overexpression of the retinoic acid-responsive gene Stra6 in human

RT cancers and its synergistic induction by Wnt-1 and retinoic acid.";

RL Cancer Res. 0:0-0(2001).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.";
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AF352729; AAK30290.1; -.
DR EMBL; AY358748; AAK89108.1; -.
SQ SEQUENCE 658 AA; 72582 MW; 5405281727F647DD CRC64;

Query Match 93.0%; Score 986.5; DB 2; Length 658;
Best Local Similarity 94.4%; Pred. No. 3.1e-82;
Matches 187; Conservative 1; Mismatches 1; Indels 9; Gaps 1;

Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLLMLVRRRLQWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLLMLVRRRLQWPCVGRGRLP-----RPRAPVPAAVFVLLSSCLLLPDED 113

Qy 122 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSTLSWA 181
Db 114 ALPFLTILASAPSDGKTEAPRGAWKILGLFYAALYPLAACATAGHTAAHLLGSTLSWA 173

Qy 182 HLGQVQVQRAECQPVPKI 199
Db 174 HLGQVQVQRAECQPVPKI 191

RESULT 5
Q6PJF8 PRELIMINARY; PRT; 159 AA.
AC Q6PJF8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE FLJ12541 protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Muscle;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skaleka U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Muscle;
RA Strausberg R.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC015881; AAH15881.1; -.
SQ SEQUENCE 159 AA; 17190 MW; 7FB62BED986EC3B9 CRC64;

Query Match 70.2%; Score 745; DB 2; Length 159;
Best Local Similarity 99.3%; Pred. No. 1.2e-60;
Matches 141; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61
Db 3 SQPAGNOTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLLMLVRRRLQWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 121
Db 63 VLLLLLMLVRRRLQWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSCLLLPDED 122

Qy 122 ALPFLTILASAPSDGKTEAPRG 143
Db 123 ALPFLTILASAPSDGKTEAPRG 144

RESULT 6
O70491 PRELIMINARY; PRT; 670 AA.
ID O70491
AC O70491;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-NOV-1999 (TrEMBLrel. 12, Last annotation update)
DE Retinoic acid-responsive protein.
GN Name=Strat6;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95377533; PubMed=7649373; DOI=10.1006/dbio.1995.1226;
RA Bouillet P., Oulad-Abdelghani M., Vicaire S., Garnier J.M.,
RA Schuhbauer B., Dolle P., Chambon P.;
RT "Efficient cloning of cDNAs of retinoic acid-responsive genes in P19
RT embryonal carcinoma cells and characterization of a novel mouse gene,
RT Strat (mouse LERK-2/Eplg2).";
RL Dev. Biol. 170:420-433(1995).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=97346723; PubMed=9203140; DOI=10.1016/S0925-4773(97)00039-7;
RA Bouillet P., Sapin V., Chazaud C., Messadeg N., Decimo D., Dolle P.,
RA Chambon P.;
RT "Developmental expression pattern of Strat6, a retinoic acid-responsive
RT gene encoding a new type of membrane protein.";
RL Mech. Dev. 63:173-186(1997).
RN [3]
RP SEQUENCE FROM N.A.
RA Bouillet P.;
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF062476; AAC16016.1; -.
DR MGD; MGI:107742; Strat6.
DR GO; GO:0016021; C:integral to membrane; TAS.
SQ SEQUENCE 670 AA; 73774 MW; 6ACE69F3EE16A4F7 CRC64;

Query Match 65.7%; Score 697; DB 2; Length 670;
Best Local Similarity 68.6%; Pred. No. 1.4e-55;
Matches 133; Conservative 18; Mismatches 41; Indels 2; Gaps 1;

Qy 6 GNQTSFGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLSILVLL 65
Db 9 GSQTSSGVTDYS--SWYIEPLGAEEVQPEGVIPLCQLTAPPALLHACLASLSFLVLL 66


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Db 2 SAETVNNYDSWY---ENAAPTKAPVEVIPPCTDADEGLFHICIAAISLVMLVLAIL 58
QY 70 VRRQLWPCVGRPGLPSPVDFLAGDRPRVAPAAVFMVLLSSICLLLPDEDALPFLTLA 129
Db 59 ARRQKL-SDNQRGLTGLSPVNFLDHTQHKGLAVAVGVLFCKLVGMVLSHHPLPFT--- 114
QY 130 SAPSDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLGSLTSLSWAHLGVQVWQ 189
Db 115 -----KEVANKEFWMLALLYYPALLYPLLACGTLHNKVGVLGSLLSWTHFGILVWQ 167
QY 190 RAECQVPKPI 199
Db 168 KVDCBKTPOI 177

RESULT 11
Q7WE26 PRELIMINARY; PRT; 293 AA.
AC Q7WE26;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative membrane protein.
GN OrderedLocusNames=BB4812;
OS Bordetella bronchiseptica (Alcaligenes bronchisepticus).
OC Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
OC Alcaligenaceae; Bordetella.
OX NCBI_TaxID=518;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=RB50 / ATCC BAA-588;
RX MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ngl1227;
RA Parkhill J., Sebahia M., Preston A., Murphy L.D., Thomson N.R.,
Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,
Cerdeno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A.,
Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,
Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,
Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,
Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C.,
Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,
Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,
Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;
"Comparative analysis of the genome sequences of Bordetella pertussis,
Bordetella parapertussis and Bordetella bronchiseptica.";
RL Nat. Genet. 35:32-40(2003).
DR EMBL; BX640451; CAE35175.1; -.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000620; DUF6.
DR Pfam; PF00892; DUF6; 1.
KW Complete proteome.
SQ SEQUENCE 293 AA; 29783 MW; E66BA78D5E88CA0C CRC64;

Query Match 9.4%; Score 99.5; DB 2; Length 293;
Best Local Similarity 27.3%; Pred. No. 0.58;
Matches 50; Conservative 17; Mismatches 53; Indels 63; Gaps 9;

QY 43 HTSIPPGLY---HACLAS--LSILVLLLLAMLVRRRQLWPCVGRGRLPSPVDFLAGDR 97
Db 2 HVSALPGAQPARHAANAAGVAAILLWASLALMTATAQ-----GLP----- 41
QY 98 PRAPVAAVFMVLLSSICLLLPDEDALPFLTLASAPSDGKTEAPRGAWKIL--GLFHYAA 155
Db 42 PFQLLAASFGVAFALSAVLL-----TARRAWGRLRAPAGAWLLAVGGIFGYHA 89
QY 156 LYY-----PLAAC-----ATAGHTAAH-----LLGSTLSWAHLGVQVWQRA 191
Db 90 LYFYALGNAPVAEASLIAYLWPLLIVLFAIRGAGGARRWRALAGAGFAGTALLVWQRA 149
QY 192 ECP 194
Db 150 GGP 152
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RESULT 12
Q7W325 PRELIMINARY; PRT; 293 AA.
AC Q7W325;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative membrane protein.
GN OrderedLocusNames=Bpp4224;
OS Bordetella parapertussis.
OC Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
OC Alcaligenaceae; Bordetella.
OX NCBI_TaxID=519;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=12822 / ATCC BAA-587;
RX MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ngl1227;
RA Parkhill J., Sebahia M., Preston A., Murphy L.D., Thomson N.R.,
Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,
Cerdeno-Tarraga A.-M., Temple L., James K.D., Bason N., Cherevach I.,
Achtman M., Atkin R., Baker S., Basham D., Cronin A., Davis P., Doggett J.,
Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,
Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,
Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C.,
Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,
Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,
Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;
"Comparative analysis of the genome sequences of Bordetella pertussis,
Bordetella parapertussis and Bordetella bronchiseptica.";
RL Nat. Genet. 35:32-40(2003).
DR EMBL; BX640436; CAE39503.1; -.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000620; DUF6.
DR Pfam; PF00892; DUF6; 1.
KW Complete proteome.
SQ SEQUENCE 293 AA; 29769 MW; 1C52078C7FF76A0E CRC64;

Query Match 9.1%; Score 96.5; DB 2; Length 293;
Best Local Similarity 26.8%; Pred. No. 1.1;
Matches 49; Conservative 17; Mismatches 54; Indels 63; Gaps 8;

QY 43 HTSIPPGLYHACLAS-----LSILVLLLLAMLVRRRQLWPCVGRGRLPSPVDFLAGDR 97
Db 2 HVSALPGAQPARHAANGAGVAAILLWASLALMTATAQ-----GLP----- 41
QY 98 PRAPVAAVFMVLLSSICLLLPDEDALPFLTLASAPSDGKTEAPRGAWKIL--GLFHYAA 155
Db 42 PFQLLAASFGVAFALSAVLL-----TARRAWGRLRAPAGAWLLAVGGIFGYHA 89
QY 156 LYY-----PLAAC-----ATAGHTAAH-----LLGSTLSWAHLGVQVWQRA 191
Db 90 LYFYALGNAPVAEASLIAYLWPLLIVLFAIRGAGGARRWRALAGAGFAGTALLVWQRA 149
QY 192 ECP 194
Db 150 GGP 152

RESULT 13
Q6ZNR9 PRELIMINARY; PRT; 441 AA.
AC Q6ZNR9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ27266.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
```

RC TISSUE=Thymus;
RA Oshima A., Takahashi-Fujii A., Tanase T., Imose N., Takeuchi K.,
RA Arita M., Musashino K., Yuuki H., Hara H., Suzuki Y., Hata H.,
RA Nakagawa K., Mizuno S., Morinaga M., Kawamura M., Sugiyama T.,
RA Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A., Kawakami B.,
RA Nagai K., Isogai T., Sugano S.;
RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK130776; BAC85426.1; -.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0004674; F:protein serine/threonine kinase activity; IEA.
DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
DR InterPro; IPR011009; Kinase like.
DR InterPro; IPR000719; Prot_kinase.
DR InterPro; IPR002290; Ser_thr_kinase.
DR InterPro; IPR01245; Tyr_pkinase.
DR ProDom; PD000001; Prot_kinase; 1.
DR SMART; SM00220; S_TKc; 1.
DR SMART; SM00219; TyrKc; 1.
DR PROSITE; PS00011; PROTEIN_KINASE_DOM; 1.
KW Receptor.
SQ SEQUENCE 441 AA; 48434 MW; E43EDFC4753A0BB4 CRC64;

Query Match 9.1%; Score 96.5; DB 2; Length 441;
Best Local Similarity 24.1%; Pred. No. 1.7;
Matches 35; Conservative 22; Mismatches 73; Indels 15; Gaps 5;

QY 7 NQTSPGATEDSYGSWYIDEPQ----GGXELQPEGEVPSCHT-SIPPGLYHACLASLSIL 61
Db 101 NNSSPALGGTFPPAPWPPGPPPTNFSSLEPRGQPVAKAGSPTAILIGCLVAIILL 160

QY 62 VLLLLAMLVRR--RQLWPCVGRGRLPSVDFLAGDRPRAVPAAVFVLLSSLCLLLP 118
Db 161 LLLIIALMLWRLHWRLLSKVLESHPRTRSP--GLVGIRPTPLPVSPMALRCCS-----P 213

QY 119 DEDALPFLTLASAPSDGKTEAPRG 143
Db 214 IQPTASFWPLTPVPLEARAPPHPPG 238

RESULT 14
Q7NIK1 PRELIMINARY; PRT; 840 AA.
AC Q7NIK1;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DE G12182 protein.
GN OrderedLocusNames=g12182;
OS Gloeobacter violaceus.
OC Bacteria; Cyanobacteria; Chroococcales; Gloeobacter.
OX NCBI_TaxID=33072;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PCC 7421;
RX MEDLINE=22977040; PubMed=14621292;
RA Nakamura Y., Kaneko T., Sato S., Mimuro M., Miyashita H., Tauchiya T.,
RA Sasamoto S., Watanabe A., Kawashima K., Kishida Y., Kiyokawa C.,
RA Kohara M., Matsumoto M., Matsuno A., Nakazaki N., Shimpo S.,
RA Takeuchi C., Yamada M., Tabata S.;
RT "Complete genome structure of Gloeobacter violaceus PCC 7421, a
RT cyanobacterium that lacks thylakoids";
RL DNA Res. 10:137-145(2003).
DR EMBL; AP006575; BAC90123.1; -.
DR HSSP; P50870; 1MR7.
DR GO; GO:0016747; F:transferase activity, transferring groups o. . .; IEA.
DR InterPro; IPR002656; Acyl_transf_3.
DR InterPro; IPR003018; GAF.
DR InterPro; IPR001451; Hexapep_transf.
DR InterPro; IPR011004; Trimer_lpxA_like.
DR Pfam; PF01757; Acyl_transf_3; 1.
DR Pfam; PF01590; GAF; 1.

DR Pfam; PF00132; Hexapep; 6.
DR PROSITE; PS00101; HEXAPEP_TRANSFERASES; 1.
KW Complete proteome.
SQ SEQUENCE 840 AA; 90623 MW; 4C2A59EF60ABD838 CRC64;

Query Match 8.5%; Score 90.5; DB 2; Length 840;
Best Local Similarity 26.2%; Pred. No. 12;
Matches 53; Conservative 21; Mismatches 65; Indels 63; Gaps 13;

QY 26 EPQGXELQPEGEVPSCHTSIPPGLYHACLASLSILVLLLLMLVRRRQLWPCVGRPG 85
Db 14 EPRGDMTEPKPKPSRLRLHYLDG-----LRGLTALYILFF-----HLWCD-LSFKPQ 60

QY 86 LPSPVDFLAGD-RPRAPVPA-----VFMVLLSSLLCLLDEDALPFLTLASAP 132
Db 61 LR-----LAGEPMPTWLQAATAWAGYGLFSVGIFMV-LSGYCLMLP-----VV 102

QY 133 SQDGKTEA-----PRGAWKILGLFHYAALYYPLAACATAGHTAAHLG-----STLS 179
Db 103 RSDGRLRGVGTGKRRARILPPY-FAALGLSLVIALVGAGSGOSLGYMWDKAMNGFT 161

QY 180 W-----AH-LGVQVWQRAECPQV 196
Db 162 WEGVLAHLLLVHNSSEAQASTI 183

RESULT 15
Q7W6G2 PRELIMINARY; PRT; 2527 AA.
AC Q7W6G2;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative type I polyketide synthase.
GN Name=wcbr; OrderedLocusNames=BPP2950;
OS Bordetella parapertussis.
OC Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
OC Alcaligenaceae; Bordetella.
OX NCBI_TaxID=519;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=12822 / ATCC BAA-587;
RX MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
RA Parkhill J., Sebahia M., Preston A., Murphy L.D., Thomson N.R.,
RA Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,
RA Cerdeno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A.,
RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,
RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,
RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,
RA Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C.,
RA Rabinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,
RA Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,
RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;
RT "Comparative analysis of the genome sequences of Bordetella pertussis,
RT Bordetella parapertussis and Bordetella bronchiseptica.";
RL Nat. Genet. 35:32-40(2003).
CC -!- PTM: 4'-phosphopantetheine is transferred from CoA to a specific
CC serine of the protein (By similarity).
CC -!- SIMILARITY: Contains 1 acyl carrier domain.
DR EMBL; BX640432; CAE38242.1; -.
DR HSSP; P39435; 1KAS.
DR GO; GO:0000036; F:acyl carrier activity; IEA.
DR GO; GO:0004024; F:alcohol dehydrogenase activity, zinc-dependent; IEA.
DR GO; GO:0048037; F:cofactor binding; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0006633; P:fatty acid biosynthesis; IEA.
DR GO; GO:0008152; P:metabolism; IEA.
DR InterPro; IPR003231; Acyl_carrier.
DR InterPro; IPR001227; Ac_transferase.
DR InterPro; IPR002085; Adh_zn_family.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR000794; Ketoacyl_synth.

DR InterPro; IPR006163; Phosphatase_bind.
DR Pfam; PF00698; Acyl_transf_1; 1.
DR Pfam; PF00107; ADH_zinc_N; 1.
DR Pfam; PF00109; ketoacyl-synt; 1.
DR Pfam; PF02801; Ketoacyl-synt_C; 1.
DR Pfam; PF00550; PP-binding; 1.
DR ProDom; PD000887; Acyl_carrier; 1.
DR PROSITE; PS00075; ACP_DOMAIN; 1.
DR PROSITE; PS00606; B_KETOACYL SYNTHASE; 1.
DR PROSITE; PS00290; IG_MHC; UNKNOWN 1.
KW Complete proteome; Phosphopantetheine; Transferase.
SQ SEQUENCE 2527 AA; 269583 MW; 599CFAD9E3AE99B5 CRC64;

Query Match 8.5%; Score 90.5; DB 2; Length 2527;
Best Local Similarity 29.0%; Pred.No. 36;
Matches 51; Conservative 16; Mismatches 66; Indels 43; Gaps 9;
QY 24 IDEPQGXELQPEGEVPSC-HTSIPG-----LYHA-----CLASLSI 60
DB 1423 IDEAEIRERCPLDSVQAIDHTEPPAGRFDLAILHANWPTLDEARQALGHVRHCLAPGGV 1482
QY 61 LVLLLLAMLVRRRQLWPCVGRGRLPSVPDFLAGD-RPRAVPAAVFMVLLSSL-CL--- 115
DB 1483 LLL-----LANQPTAWLDFIFGARG-QWMSDSVAGDATPALQPAAFWRRELQALGCACEP 1536
QY 116 ---LLPDEDALPFL-----TLASAPSDGKTEAPRGAWKILGLFHYAALYYPLAA 162
DB 1537 AADFLPDTRSGPYLLAATVATVADGDSGDTVDAPPARRWLLLLADAADAARPLAA 1592

Search completed: February 8, 2005, 13:40:07
Job time : 90.3473 secs

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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:20:30 ; Search time 144.513 Seconds
(without alignments)
869.796 Million cell updates/sec

Title: US-09-816-653A-4
Perfect score: 1695
Sequence: 1 CYISALVLSCLLTFLVMRS.....APPTWLWESQQGFWRKKLVG 325

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1679	99.1	325	6	ABB99463	Abb99463 Amino aci
2	1134	66.9	660	5	AAU91277	Aau91277 Human NOV
3	1110.5	65.5	491	5	ABP68961	Abp68961 Human pol
4	1110.5	65.5	560	4	AAB94108	Aab94108 Human pro
5	1110.5	65.5	560	5	ABP69799	Abp69799 Human pol
6	1110.5	65.5	599	7	ADB64152	Adb64152 Human pro
7	1110.5	65.5	666	6	ABU82087	Abu82087 Novel hum
8	1110.5	65.5	667	4	AAU04557	Aau04557 Human Str
9	1110.5	65.5	667	4	AAU88572	Aab88572 Human hyd
10	1110.5	65.5	667	5	AAU83631	Aau83631 Human PRO
11	1110.5	65.5	667	5	AAU78575	Aau78575 Human Str
12	1110.5	65.5	667	5	ABB05048	Abb05048 Human NOV
13	1110.5	65.5	667	5	AAO19413	Aao19413 Human mol
14	1110.5	65.5	667	6	ABU80778	Abu80778 Human PRO
15	1110.5	65.5	667	6	ABO33744	Abo33744 Novel hum
16	1110.5	65.5	667	6	ABJ72267	Abj72267 Human PRO
17	1110.5	65.5	667	6	ABJ72395	Abj72395 Human PRO
18	1110.5	65.5	667	6	ABO34290	Abo34290 Human sec
19	1110.5	65.5	667	7	ABJ72097	Abj72097 Human mem
20	1110.5	65.5	667	7	ADB83570	Adb83570 Novel hum
21	1110.5	65.5	667	7	ADB80676	Adb80676 Novel hum
22	1110.5	65.5	667	7	ADB73217	Adb73217 Novel hum
23	1110.5	65.5	667	7	ADB78299	Adb78299 Novel hum
24	1110.5	65.5	667	7	ADB84947	Adb84947 Human PRO
25	1110.5	65.5	667	7	ADB78053	Adb78053 Novel hum

26	1110.5	65.5	667	7	ADB87119	Adb87119 Human PRO
27	1110.5	65.5	667	7	ADB84701	Adb84701 Human PRO
28	1110.5	65.5	667	7	ADB83816	Adb83816 Novel hum
29	1110.5	65.5	667	7	ADB72971	Adb72971 Novel hum
30	1110.5	65.5	667	7	ADC36809	Adc36809 Human PRO
31	1110.5	65.5	667	7	ADC21799	Adc21799 Human PRO
32	1110.5	65.5	667	7	ADC49830	Adc49830 Novel hum
33	1110.5	65.5	667	7	ADC49029	Adc49029 Novel hum
34	1110.5	65.5	667	7	ADC49546	Adc49546 Novel hum
35	1110.5	65.5	667	7	ADC47407	Adc47407 Novel hum
36	1110.5	65.5	667	7	ADC47152	Adc47152 Novel hum
37	1110.5	65.5	667	7	ADC78027	Adc78027 Novel hum
38	1110.5	65.5	667	7	ADD06262	Add06262 Novel hum
39	1110.5	65.5	667	7	ADC77781	Adc77781 Novel hum
40	1110.5	65.5	667	7	ADD50744	Add50744 Novel hum
41	1110.5	65.5	667	7	ADD50990	Add50990 Novel hum
42	1110.5	65.5	667	7	ADD50471	Add50471 Human PRO
43	1110.5	65.5	667	7	ADD50225	Add50225 Human PRO
44	1110.5	65.5	667	7	ADD51236	Add51236 Novel hum
45	1110.5	65.5	667	8	ADC48783	Adc48783 Novel hum

ALIGNMENTS

RESULT 1
ABB99463
ID ABB99463 standard; protein; 325 AA.
XX
AC ABB99463;
XX
DT 12-FEB-2003 (first entry)
XX
DE Amino acid sequence of the carboxy-terminal of human STRA6.
XX
KW Human; STRA6; retinoic acid; hSTRA6; Wnt-1; cellular transformation;
KW tumour; colon cancer; breast cancer; melanoma; gene therapy.
XX
OS Homo sapiens.

Key	Location/Qualifiers
Misc-difference 146	/note= "unknown amino acid encoded by GNN"
Misc-difference 147	/note= "unknown amino acid encoded by NNN"
Misc-difference 148	/note= "unknown amino acid encoded by NCC"
Misc-difference 213	/note= "Gly encoded by GG"
Misc-difference 232	/note= "unknown amino acid encoded by ANG"
Misc-difference 290	/note= "unknown amino acid encoded by NGT"
Misc-difference 292	/note= "unknown amino acid encoded by TNG"
Misc-difference 302	/note= "unknown amino acid encoded by CAN"
Misc-difference 303	/note= "unknown amino acid encoded by GAN"

WO200277027-A1.

03-OCT-2002.

23-MAR-2001; 2001WO-US009561.

23-MAR-2000; 2000US-0191532P.

(CURA-) CURAGEN CORP.
(GETH) GENENTECH INC.

Rastelli LK, Pennica D;

DR WPI; 2003-058366/05.
DR N-PSDB; ABV76853.
XX
PT New human STRA6 (stimulated by retinoic acid) proteins and nucleic acids
PT encoding the proteins, useful for treating cancers (e.g. colon and breast
PT cancer, or melanoma), or in gene therapy.
XX
XX
PS Claim 4; Page 11-13; 113pp; English.
XX
CC The present sequence represents the carboxy-terminal portion of a human
CC protein, designated STRA6 (stimulated by retinoic acid). hSTRA6 (human
CC STRA6) is modulated by Wnt-1 and plays a role in cellular transformation.
CC The hSTRA6 nucleic acids and proteins are useful for treating tumours
CC (e.g. colon and breast cancer, or melanoma), in gene therapy, in
CC diagnostic applications where the presence or amount of the nucleic acid
CC or protein is to be assessed, and in the generation of antibodies that
CC bind immunospecifically to these sequences for therapeutic and diagnostic
CC applications. hSTRA6 nucleic acid fragments may be used as hybridization
CC probes to identify hSTRA6-encoding nucleic acids, or as PCR primers for
CC amplification and/or mutation of hSTRA6 molecules
XX
SQ Sequence 325 AA;

Query Match 99.1%; Score 1679; DB 6; Length 325;
Best Local Similarity 100.0%; Pred. No. 5.3e-166;
Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CYISALVLSCLLTFLVLMRSLVTHRLGSGGSGDQFSWNLFSVPLPLPPLAGLLVQOIIF 60
DQ |||||
Db 1 CYISALVLSCLLTFLVLMRSLVTHRLGSGGSGDQFSWNLFSVPLPLPPLAGLLVQOIIF 60
||
QY 61 FLGTTALAFVLMPVLHGRNLLFFRSLESSWPFWLTALAVILQNMAAHVWFLETHDGH 120
DQ |||||
Db 61 FLGTTALAFVLMPVLHGRNLLFFRSLESSWPFWLTALAVILQNMAAHVWFLETHDGH 120
||
QY 121 QLTNRRLVYAATFLFPLNLVGMXXXCSPSIAIRHPTPGYTYTRNFKIEVSQSHPM 180
DQ |||||
Db 121 QLTNRRLVYAATFLFPLNLVGMXXXCSPSIAIRHPTPGYTYTRNFKIEVSQSHPM 180
||
QY 181 TAFCSLLLOAQSLLPRTMAAPQDSLPRGEEDEGMQLLOTKDSMAKGARPGAXRGARWGL 240
DQ |||||
Db 181 TAFCSLLLOAQSLLPRTMAAPQDSLPRGEEDEGMQLLOTKDSMAKGARPGAXRGARWGL 240
||
QY 241 AYTLHNPTLOVFRKTAALLGANGAQPCSSLPSPSITPAMQAGPDHGXGXEVCVLHWE 300
DQ |||||
Db 241 AYTLHNPTLOVFRKTAALLGANGAQPCSSLPSPSITPAMQAGPDHGXGXEVCVLHWE 300
||
QY 301 PXXGSAPPTLWESQQGFWRKVLVG 325
DQ |||||
Db 301 PXXGSAPPTLWESQQGFWRKVLVG 325
||

RESULT 2
AAU91277
ID AAU91277 standard; protein; 660 AA.
XX
AC AAU91277;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human NOV2a protein.
XX
KW Human; NOVX; gene therapy; cardiomyopathy; atherosclerosis; diabetes;
KW cell signal processing; metabolic pathway modulation; inflammation;
KW autoimmune disorder; scleroderma; transplantation; allergy;
KW systemic lupus erythematosus; haemophilia; Alzheimer's disease;
KW graft versus host disease; Lesch-Nyhan syndrome; periodontitis;
KW pancreatitis; musculoskeletal disorder; Parkinson's disease;
KW Huntington's disease; behavioural disorder; pain; obesity; wound healing;
KW neurodegenerative disorder; neuropsychiatric disorder; hypertension;
KW growth disorder; reproductive disorder; lung disease.
XX
OS Homo sapiens.

XX WO200216600-A2.
PN
XX
PD 28-FEB-2002.
XX
PF 27-AUG-2001; 2001WO-US026518.
XX
PR 25-AUG-2000; 2000US-0227800P.
PR 25-AUG-2000; 2000US-0228205P.
PR 25-AUG-2000; 2000US-0228324P.
PR 30-AUG-2000; 2000US-0228997P.
PR 30-AUG-2000; 2000US-0229185P.
PR 01-SEP-2000; 2000US-0229780P.
PR 01-SEP-2000; 2000US-0229848P.
PR 01-SEP-2000; 2000US-0229850P.
PR 22-JAN-2001; 2001US-0263337P.
PR 31-JAN-2001; 2001US-0265518P.
PR 15-MAR-2001; 2001US-0276451P.
PR 27-MAR-2001; 2001US-0279196P.
PR 24-AUG-2001; 2001US-00939398.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Gerlach V, Macdougall JR, Smithson G, Stone DJ, Ellerman K;
PI Spytek KA, Zerhusen BD, Rastelli L, Verney CAM, Patturajan M;
PI Tchernev VT, Padigar M, Taupier RJ;
XX
DR WPI; 2002-292064/33.
DR N-PSDB; ABK55561.
XX
PT New isolated cytoplasmic, nuclear, membrane bound and secreted
PT polypeptides, termed NOVX, useful for treating inflammation, autoimmune
PT disorders, hemophilia, Lesch-Nyhan syndrome, pancreatitis,
PT musculoskeletal disorders.
XX
PS Claim 1; Page 18; 245pp; English.
XX
CC The invention relates to an isolated cytoplasmic, nuclear, membrane bound
CC or secreted polypeptide, designated NOVX (actually NOV1, 2a, 2b, 3a, 3b,
CC 4, 5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i, 6, 7 and 8), a variant of NOVX, a
CC mature form, or a variant of the mature form of NOVX. Also included are a
CC polynucleotide encoding NOVX (or its complement), a vector comprising the
CC polynucleotide, a cell comprising the vector, an anti-NOVX antibody,
CC determining the presence of NOVX in a sample using the antibody,
CC determining the presence of NOVX polynucleotide in a sample using a probe
CC which binds to NOVX polynucleotide, identifying an agent which binds to
CC NOVX (including modulators of NOVX). NOVX, the polynucleotide and the
CC antibody are useful for diagnosing, treating or preventing a NOVX-
CC associated disorder selected from cardiomyopathy, atherosclerosis,
CC diabetes, a disorder related to cell signal processing and metabolic
CC pathway modulation, inflammation, autoimmune disorders, scleroderma,
CC transplantation, allergies, systemic lupus erythematosus, haemophilia,
CC graft versus host disease, Alzheimer's disease, stroke, Lesch-Nyhan
CC syndrome, periodontitis, pancreatitis, musculoskeletal disorders,
CC Parkinson's disease, Huntington's disease, behavioural disorders, pain,
CC neurodegenerative and neuropsychiatric disorders, hypertension, wound
CC healing, obesity, growth and reproductive disorders, lung diseases and
CC many other diseases and disorders listed in the specification. NOVX, the
CC polynucleotide and the antibody are useful in screening assays, detection
CC assays (e.g., chromosomal mapping, tissue typing, forensic biology),
CC predictive medicine (e.g., diagnostic assays, prognostic assays,
CC monitoring clinical trials and pharmacogenomic), and in methods of
CC treatment (e.g., therapeutic and prophylactic). NOVX is useful as
CC immunogen to produce antibodies immunospecific for NOVX, as vaccines to
CC screen for potential agonist and antagonist compounds, and as bait
CC protein in a two-hybrid or three-hybrid assay. The polynucleotide is
CC useful in gene therapy, to express NOVX, to detect NOVX mRNA or a genetic
CC lesion in a NOVX gene, and to modulate NOVX activity. The vector is
CC useful for producing non-human transgenic animals. The antibody is useful
CC for isolating, and purifying NOVX and to monitor protein levels in tissue
CC as part of a clinical testing procedure. The present sequence represents
CC a NOVX protein
XX

```
SQ      Sequence 660 AA;
Query Match      66.9%; Score 1134; DB 5; Length 660;
Best Local Similarity 76.9%; Pred. No. 8.4e-109;
Matches 237; Conservative 4; Mismatches 25; Indels 42; Gaps 5;

QY      1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42
Db      353 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 412

QY      43 VPLP-----LPPLAGLLVQQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLT 97
Db      413 AYQTAFICLLPPLAGLLVQQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLT 472

QY      98 ALAVILQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLGAMXXXC----- 149
Db      473 ALAVILQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLGAMVATWRVLLSALY 532

QY      150 -----SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLQLAQSLPRTM 198
Db      533 NAIHLGQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLQLAQSLPRTM 592

QY      199 AAPQDSILRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLLHNPTLQVFRKTAL 258
Db      593 AAPQDSILRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLLHNPTLQVFRKTAL 652

QY      259 LGANGAQP 266
Db      653 LGANGAQP 660

RESULT 3
ABP68961
ID      ABP68961 standard; protein; 491 AA.
XX
AC      ABP68961;
XX
DT      20-JAN-2003 (first entry)
XX
DE      Human polypeptide SEQ ID NO 1008.
XX
KW      Human; genome mapping; gene therapy; food supplement; virus; fungus;
KW      cell-proliferative disorder; neurodegenerative disease; bacterial;
KW      parkinson's disease; Alzheimer's disease; autoimmune disease;
KW      multiple sclerosis; diabetes; genetic disorder; wound; burn; infection;
KW      arthritis; cytostatic; immunomodulator; nootropic; neuroprotective;
KW      antiparkinsonian; antidiabetic; immunosuppressive; dermatological;
KW      haemostatic; vulnery; fungicide; antibacterial; virucide; protozoacide;
KW      antiarthritic.
XX
OS      Homo sapiens.
XX
PN      WO200270539-A2.
XX
PD      12-SEP-2002.
XX
PF      05-MAR-2002; 2002WO-US005095.
XX
PR      05-MAR-2001; 2001US-00799451.
XX
PA      (HYSE-) HYSEQ INC.
XX
PI      Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F;
PI      Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M;
PI      Wehrman T, Wang J, Wang D, Drmanac RT;
XX
DR      WPI; 2002-759812/82.
DR      N-PSDB; ABZ11178.
XX
PT      New polynucleotides comprising sequences assembled from expressed
PT      sequence tags (ESTs), useful for treating cell-proliferative,
PT      neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or platelet
PT      or coagulation disorders.
```

```
XX      Claim 9; SEQ ID NO 1008; 1012pp + Sequence Listing; English.
XX
CC      The invention relates to an isolated polynucleotide (I) comprising a
CC      nucleotide sequence selected from any of 948 sequences (ABZ11119-
CC      ABZ12066) or their mature protein coding portion, active domain coding
CC      protein or complementary sequences. The polynucleotides are useful for
CC      identifying expressed genes or for physical mapping of human genome. The
CC      encoded polypeptides (ABP68902-ABP69849) are useful as molecular weight
CC      markers, as a food supplement, for generating antibodies, in medical
CC      imaging, screening and diagnostic assays and for treating cell-
CC      proliferative disorders (cancer), neurodegenerative diseases (Parkinson's
CC      or Alzheimer's disease), autoimmune diseases (multiple sclerosis,
CC      diabetes, lupus) genetic disorders, myeloid or lymphoid disorders,
CC      platelet or coagulation disorders, wound, burns, incision, ulcers, liver
CC      or lung fibrosis, infections (bacterial, viral, fungal, parasitic),
CC      arthritis, etc. Note: The sequence data for this patent did not form part
CC      of the printed specification, but was obtained in electronic format
CC      directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 491 AA;
Query Match      65.5%; Score 1110.5; DB 5; Length 491;
Best Local Similarity 76.6%; Pred. No. 1.6e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY      1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42
Db      189 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 248

QY      43 VPLPPLAGLLVQQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db      249 AYQTAFICLLVQQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 308

QY      103 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLGAMXXXC----- 149
Db      309 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLGAMVATWRVLLSALYAIHL 368

QY      150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLQLAQSLPRTMAAPQD 203
Db      369 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLQLAQSLPRTMAAPQD 428

QY      204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db      429 SLRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLLHNPTLQVFRKTALLGANG 488

QY      264 AQP 266
Db      489 AQP 491

RESULT 4
AAB94108
ID      AAB94108 standard; protein; 560 AA.
XX
AC      AAB94108;
XX
DT      26-JUN-2001 (first entry)
XX
DE      Human protein sequence SEQ ID NO:14340.
XX
KW      Human; primer; detection; diagnosis; antisense therapy; gene therapy.
XX
OS      Homo sapiens.
XX
PN      EP1074617-A2.
XX
PD      07-FEB-2001.
XX
PF      28-JUL-2000; 2000EP-00116126.
XX
PR      29-JUL-1999; 99JP-00248036.
PR      27-AUG-1999; 99JP-00300253.
```


PR 11-JAN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
DR WPI; 2001-318749/34.
XX
XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.
XX
PS Claim 8; SEQ ID NO 14340; 2537pp + Sequence Listing; English.
XX
CC The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification. Where a primer set comprises:
CC (a) an oligo-dT primer and an oligonucleotide complementary to the
CC complementary strand of a polynucleotide which comprises one of the 5602
CC nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in the
CC specification. The primer sets can be used in antisense therapy and in
CC gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent
CC oligonucleotides, all of which are used in the exemplification of the
CC present invention
XX
SQ Sequence 560 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 560;
Best Local Similarity 76.6%; Pred. No. 1.9e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
DB 258 CYISALVLSCLLTFLVLMRSLVTHRNLRALHARGAALDLSPLHRSPHPSRQAIFCWMMSFS 317
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
DB 318 AYQTAFIGLGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 377
QY 103 LQNMAAHWVFLTHDGHQPOLTNRRLVYAATFLLFPLNLVGMXXXC----- 149
DB 378 LQNMAAHWVFLTHDGHQPOLTNRRLVYAATFLLFPLNLVGMVATWRVLLSALYNAIHL 437
QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 203
DB 438 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 497
QY 204 SLRPGDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLLHNFTLOVFRKTLALGANG 263
DB 498 SLRPGDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLLHNFTLOVFRKTLALGANG 557
QY 264 AQP 266
DB 558 AQP 560

RESULT 5

ABP69799
ID ABP69799 standard; protein; 560 AA.
XX
AC ABP69799;
XX
DT 20-JAN-2003 (first entry)
XX
DE Human polypeptide SEQ ID NO 1846.
XX
KW Human; genome mapping; gene therapy; food supplement; virus; fungus;
KW cell-proliferative disorder; neurodegenerative disease; bacterial;
KW Parkinson's disease; Alzheimer's disease; autoimmune disease;
KW multiple sclerosis; diabetes; genetic disorder; wound; burn; infection;
KW arthritis; cytostatic; immunomodulator; nootropic; neuroprotective;
KW antiparkinsonian; antidiabetic; immunosuppressive; dermatological;
KW haemostatic; vulnery; fungicide; antibacterial; virucide; protozoacide;
KW antiarthritic.
XX
OS Homo sapiens.
XX
PN WO200270539-A2.
XX
PD 12-SEP-2002.
XX
PF 05-MAR-2002; 2002WO-US005095.
XX
PR 05-MAR-2001; 2001US-00799451.
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F;
PI Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M;
PI Wehrman T, Wang J, Wang D, Drmanac RT;
XX
DR WPI; 2002-759812/82.
DR N-PSDB; ABZ12016.
XX
XX New polynucleotides comprising sequences assembled from expressed
PT sequence tags (ESTs), useful for treating cell-proliferative,
PT neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or platelet
PT or coagulation disorders.
XX
PS Claim 9; SEQ ID NO 1846; 1012pp + Sequence Listing; English.
XX
CC The invention relates to an isolated polynucleotide (I) comprising a
CC nucleotide sequence selected from any of 948 sequences (ABZ11119-
CC ABZ12066) or their mature protein coding portion, active domain coding
CC protein or complementary sequences. The polynucleotides are useful for
CC identifying expressed genes or for physical mapping of human genome. The
CC encoded polypeptides (ABP68902-ABP69849) are useful as molecular weight
CC markers, as a food supplement, for generating antibodies, in medical
CC imaging, screening and diagnostic assays and for treating cell-
CC proliferative disorders (cancer), neurodegenerative diseases (Parkinson's
CC or Alzheimer's disease), autoimmune diseases (multiple sclerosis,
CC diabetes, lupus) genetic disorders, myeloid or lymphoid disorders,
CC platelet or coagulation disorders, wound, burns, incision, ulcers, liver
CC or lung fibrosis, infections (bacterial, viral, fungal, parasitic),
CC arthritis, etc. Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 560 AA;

Query Match 65.5%; Score 1110.5; DB 5; Length 560;
Best Local Similarity 76.6%; Pred. No. 1.9e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
DB 258 CYISALVLSCLLTFLVLMRSLVTHRNLRALHARGAALDLSPLHRSPHPSRQAIFCWMMSFS 317
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102

Db 318 AYQTAFICLGLLVQQLIFFLGTGTTALAFVLMPVLHGRNLLLFRRSLESSWPFWLTALAVI 377

QY 103 LQNMAAHVVFLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMXXXC----- 149

Db 378 LQNMAAHVVFLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMVATWRVLLSALYNAIHL 437

QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203

Db 438 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 497

QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLLHNPTLQVFRKTTALLGANG 263

Db 498 SLRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLLHNPTLQVFRKTTALLGANG 557

QY 264 AQP 266

Db 558 AQP 560

RESULT 6

ADB64152

ID ADB64152 standard; protein; 599 AA.

XX

AC ADB64152;

XX

DT 04-DEC-2003 (first entry)

XX

DE Human protein encoded by clone CTONG20041260.

XX

DE

XX

KW Human; pharmaceutical; diagnostic; gene therapy; tissue regeneration;

KW cell regeneration; membrane protein; signal transduction-related protein;

KW transcription-related protein; osteoporosis; neurological disease;

KW cancer; tumour.

XX

OS Homo sapiens.

XX

PN EP1308459-A2.

XX

XX 07-MAY-2003.

PD

XX

XX 28-MAR-2002; 2002EP-00007401.

PF

XX

XX 05-NOV-2001; 2001JP-00379298.

PR

XX

XX 25-JAN-2002; 2002US-00350978.

PR

XX

PA (HELI-) HELIX RES INST.

PA (REAS-) RES ASSOC BIOTECHNOLOGY.

XX

PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;

PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;

PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;

XX

XX WPI; 2003-450961/43.

DR

DR N-PSDB; ADB62182.

XX

XX New polynucleotides and polypeptides, useful for developing a diagnostic

PT marker or medicines for regulation of their expression and activity, or

PT as targets of gene therapy.

XX

XX Claim 1; Page; 222pp; English.

PS

XX

CC The invention discloses a polynucleotide comprising a sequence selected

CC from 1970 fully defined nucleotide sequences which encode novel

CC polypeptides. Also claimed is a polypeptide encoded by the polynucleotide

CC or its partial peptide, an antibody binding to the polypeptide or peptide

CC of the polynucleotide, immunologically assaying the polypeptide or

CC peptide of the polynucleotide by contacting the polypeptide or peptide

CC with the antibody of the encoded protein, and observing the binding

CC between the two, a transformant carrying the polynucleotide in an

CC expressible manner and an antisense polynucleotide. The oligonucleotide

CC is useful as a primer for synthesising the polynucleotide, or as a probe

CC for detecting the polynucleotide. The polynucleotides and encoded

CC proteins are useful as pharmaceutical agents and many disease-related

CC genes may be included in them, for developing a diagnostic marker or

CC medicines for regulation of their expression and activity, or as targets

CC of gene therapy. The genes are involved in tissue and/or cell

CC regeneration. Membrane proteins, signal transduction-related proteins,

CC transcription-related proteins, disease-related proteins and genes

CC encoding them can be used as indicators for diseases (e.g. osteoporosis,

CC neurological diseases, cancer, tumours. The cDNA may be used to regulate

CC the activity or expression of the encoded protein to treat diseases. The

CC sequence presented is a protein of the invention. Note: Some of the

CC sequence data for this patent is not represented in the printed

CC specification, but is based on sequence information supplied by the

CC European Patent Office.

XX

SQ Sequence 599 AA;

Query Match 65.5%; Score 1110.5; DB 7; Length 599;

Best Local Similarity 76.6%; Pred. No. 2.1e-106;

Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42

Db 297 CYISALVLSCLLTFLVLMRSLVTHRNLRALHRCGALDLSPLHRSHPSPRQAIFCWMSFS 356

QY 43 VPLPLPPLAGLLVQQLIFFLGTGTTALAFVLMPVLHGRNLLFFRSLESSWPFWLTALAVI 102

Db 357 AYQTAFICLGLLVQQLIFFLGTGTTALAFVLMPVLHGRNLLFFRSLESSWPFWLTALAVI 416

QY 103 LQNMAAHVVFLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMXXXC----- 149

Db 417 LQNMAAHVVFLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMVATWRVLLSALYNAIHL 476

QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203

Db 477 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 536

QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLLHNPTLQVFRKTTALLGANG 263

Db 537 SLRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLLHNPTLQVFRKTTALLGANG 596

QY 264 AQP 266

Db 597 AQP 599

RESULT 7

ABU82087

ID ABU82087 standard; protein; 666 AA.

XX

AC ABU82087;

XX

DT 26-JUN-2003 (first entry)

XX

DE Novel human secreted and transmembrane protein PRO10282.

XX

XX Human; secreted and transmembrane protein; PRO; cardiant; cytostatic;

KW antiangiogenic; hypotensive; vulnenry; antiarteriosclerotic;

KW gene therapy; cardiovascular disorder; endothelial disorder;

KW angiogenic disorder; cardiac hypertrophy; trauma; cancer;

KW age-related macular degeneration; atherosclerosis; hypertension;

KW arterial restenosis; rheumatoid arthritis; angina; myocardial infarction;

KW thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma;

KW liver carcinoma; wound healing; chromosome mapping; gene mapping.

XX

OS Homo sapiens.

XX

PN US2003088063-A1.

XX

XX 08-MAY-2003.

PD

XX

XX 12-AUG-2002; 2002US-00219003.

PF

XX

XX 25-JUL-2000; 2000US-0220664P.

PR

PR 01-JUN-2001; 2001WO-US017800.

PR	29-JUN-2001; 2001WO-US021066.	XX	Homo sapiens.
PR	09-APR-2002; 2002US-00119480.	OS	
XX		XX	
PA	(GETH) GENENTECH INC.	FH	Key
XX	Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;	FT	Modified-site
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;	FT	/note= "Asn is N-glycosylated"
XX		FT	50. .56
XX		FT	/label= N_myristoylation_site
DR	WPI; 2003-393229/37.	FT	54. .69
XX		FT	/label= Transmembrane_domain
XX		FT	89. .97
PT	One hundred and eighty seven nucleic acids encoding PRO polypeptides,	FT	/note= "Region deleted in Stra6 variant PRO19578"
PT	useful in diagnosis and treatment of cardiovascular (e.g. myocardial	FT	102. .119
PT	infarction), endothelial or angiogenic disorders in a mammal.	FT	/label= Transmembrane_domain
XX		FT	132. .140
PS	Claim 11; Fig 80; 314pp; English.	FT	/note= "ATP/GTP-binding site motif A (P-loop)"
XX		FT	148. .166
CC	The invention describes one hundred and eighty seven nucleic acids	FT	/label= Transmembrane_domain
CC	encoding novel human secreted and transmembrane (PRO) polypeptides. The	FT	176. .182
CC	PRO nucleic acids, polypeptides, agonists and antagonists are useful for	FT	/label= N_myristoylation_site
CC	treating or diagnosing a cardiovascular, endothelial or angiogenic	FT	207. .222
CC	disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-	FT	/label= Transmembrane_domain
CC	related macular degeneration, atherosclerosis, hypertension, arterial	FT	241. .247
CC	restenosis, rheumatoid arthritis, angina, myocardial infarctions,	FT	/label= N_myristoylation_site
CC	thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast	FT	301. .320
CC	carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids	FT	/label= Transmembrane_domain
CC	have applications in molecular biology, including use as hybridisation	FT	317. .323
CC	probes, and in chromosome and gene mapping. This is the amino acid	FT	/label= N_myristoylation_site
CC	sequence of a novel human secreted and transmembrane PRO polypeptide	FT	341. .347
XX		FT	/label= N_myristoylation_site
SQ	Sequence 666 AA;	FT	364. .380
		FT	/label= Transmembrane_domain
		FT	364. .375
		FT	/note= "Prokaryotic membrane lipoprotein attachment site"
		FT	431. .451
QY	1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42	FT	/label= Transmembrane_domain
Db	364 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGRGALDLSPLHRSPHPSRQAIFCWMSPS 423	FT	474. .489
		FT	/label= Transmembrane_domain
QY	43 VPLPLPPLAGLLVQIIFFLGTTALAFVLMFVLHGRNLLFFRSLESSWPFWLTILALAVI 102	FT	525. .531
Db	424 AYQTAFICLGLLVQIIFFLGTTALAFVLMFVLHGRNLLFFRSLESSWPFWLTILALAVI 483	FT	/label= N_myristoylation_site
		FT	560. .535
QY	103 LQNMAAHVWFLETHDGHQPQLTNRRLVYAATFLLFPLNLVVGAMXXXC----- 149	FT	/label= Transmembrane_domain
Db	484 LQNMAAHVWFLETHDGHQPQLTNRRLVYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 543	FT	627. .633
		FT	/label= N_myristoylation_site
QY	150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 203	FT	631. .637
Db	544 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 603	FT	/label= N_myristoylation_site
		FT	640. .646
QY	204 SLRPGHEDEGMQLLQTKDSMAKGARPGAXGRARWGILAYTLLHNPTLQVFRKTLGANG 263	FT	/label= N_myristoylation_site
Db	604 SLRPGHEDEGMQLLQTKDSMAKGARPGAXGRARWGILAYTLLHNPTLQVFRKTLGANG 663	FT	661. .667
		FT	/label= N_myristoylation_site
QY	264 AQP 266	XX	WO200151635-A2.
Db	664 AQP 666	XX	19-JUL-2001.
		XX	11-JAN-2001; 2001WO-US0000847.
		XX	13-JAN-2000; 2000US-0175849P.
		PR	14-APR-2000; 2000US-0197089P.
		PR	29-AUG-2000; 2000US-0228914P.
		XX	
		PA	(GETH) GENENTECH INC.
AAU04557		XX	Pennica D, Smith V, Wood WI;
ID	AAU04557 standard; protein; 667 AA.	PI	
AC	AAU04557;	XX	WPI; 2001-442146/47.
XX		DR	N-PSDB; AAS08630.
DT	26-SEP-2001 (first entry)	XX	
XX		XX	Human nucleic acid encoding a PRO10282 or PRO19578 polypeptide (the PRO
DE	Human Stra6 homologue, PRO10282.	PT	polypeptides are referred to as Stra6 polypeptides), useful in molecular
XX		PT	biology, including use as hybridization probes, and in chromosome and
KW	Human; Stra6; PRO10282; 15q23; tumour; breast cancer; head tumour;	PT	gene mapping.
KW	leukaemia; lymphoid malignancy; inflammatory disorder;	XX	
KW	immunogenic disorder; antigen; antibody.	XX	

PS Claim 24; Fig 2; 159pp; English.

XX The sequence is human PRO10282, a homologue of murine Stra6, a retinoic acid responsive protein thought to play an important role in early dorsoventral limb patterning during development and later in the control of endochondral ossification. The gene for the Stra6 homologue is located on chromosome 15q23. The Stra6 polypeptides, agonists, antagonists or anti-Stra6 antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the Stra6 polypeptides, agonists, antagonists or anti-Stra6 antibodies. The Stra6 polypeptides may also be employed as molecular weight markers for protein electrophoresis. The Stra6 nucleic acids have applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping. The antibodies and other anti-tumour compounds may be used to treat various conditions, including those characterised by overexpression and/or activation of amplified genes. Exemplary conditions or disorders include benign or malignant tumours (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian, colorectal, prostate, pancreatic, lung, vulval, thyroid, hepatic carcinomas, sarcomas, glioblastomas, and various head and neck tumours, leukaemias and lymphoid malignancies), neuronal, glial, astrocytal, hypothalamic and other glandular, macrophagal, epithelial, stromal and blastocoealic disorders, inflammatory, angiogenic and immunogenic disorders

XX SQ Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 667;

Best Local Similarity 76.6%; Pred. No. 2.4e-106;

Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42

DB 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHSRQAIFCWM 424

QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102

DB 425 AYQTAFICLGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484

QY 103 LQNMAAHWVFELETHDGHQPOLNRRRLVYAATFLLFPLNLVGMAMXXXC----- 149

DB 485 LQNMAAHWVFELETHDGHQPOLNRRRLVYAATFLLFPLNLVGMAMVATRWRLSALYNAIHL 544

QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTMAAPQD 203

DB 545 GQMDLSLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLHNPPTLQVFRKTALLGANG 263

DB 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLHNPPTLQVFRKTALLGANG 664

QY 264 AQP 266

DB 665 AQP 667

RESULT 9

AAB88572

ID AAB88572 standard; protein; 667 AA.

XX AC AAB88572;

XX DT 04-JUN-2001 (first entry)

XX DE Human hydrophobic domain containing protein clone HP10713 #36.

XX KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective; antianaemic; vulnary; antiulcer; osteopathic; anti-inflammatory; cytostatic; gene therapy; autoimmune disorder; multiple sclerosis; HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing; inflammatory bowel disease; nutritional supplement; appetite; vaccine; behavioural characteristic; immune response.

XX OS Homo sapiens.

XX PN WO200112660-A2.

XX PD 22-FEB-2001.

XX PF 10-AUG-2000; 2000WO-JP005356.

XX PR 17-AUG-1999; 99JP-00230344.

XX PR 07-SEP-1999; 99JP-00252551.

XX PR 01-OCT-1999; 99JP-00281132.

XX PR 22-OCT-1999; 99JP-00301624.

XX PR 04-NOV-1999; 99JP-00313877.

XX (SAGA) SAGAMI CHEM RES CENT.

PA (PROT-) PROTEGENE INC.

XX Kato S, Kimura T;

XX WPI; 2001-160059/16.

DR N-PSDB; AAF94442.

XX Human proteins with hydrophobic domains and the DNAs which encode them are useful for treating autoimmune disorders, burns and tumors and for screening novel pharmaceuticals.

PS Claim 1; Page 288-291; 518pp; English.

XX AAF94417 to AAF94516 encode the human proteins given in AAB88557 to

CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant, anti-HIV, neuroprotective, antianaemic, vulnary, antiulcer,

CC osteopathic, anti-inflammatory and cytostatic activities, and can be used in gene therapy. (I) can be used as pharmaceuticals and as antigens to

CC prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes for genetic diagnosis and gene sources for gene therapy or for producing

CC (I) in large quantities. Cells containing (II) are used for the detection of ligands or receptors corresponding to membrane or secretory proteins

CC and to screen small molecule novel pharmaceuticals. Antibodies directed to (I) can be used for the detection, quantification and purification of

CC (I). Activities of (I) may include cytokine and cell proliferation/differentiation function, immune stimulating or suppressing

CC activity, haematopoiesis regulating activity, tissue growth activity, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic

CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory activity. (I) and (II) can be used to treat autoimmune disorders e.g.

CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis, inflammatory bowel disease and tumours. (I) and (II) can also be used for

CC wound healing, as nutritional sources or supplements e.g. as amino acid, carbon or nitrogen source, to effect metabolism, catabolism, anabolism,

CC processing and utilisation of dietary fat, protein, carbohydrate, vitamins and minerals, to effect behavioural characteristics, to affect

CC appetite, and can act as antigens in vaccines to raise an immune response to the protein or another material cross-reactive with the protein

XX SQ Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 667;

Best Local Similarity 76.6%; Pred. No. 2.4e-106;

Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42

DB 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHSRQAIFCWM 424

QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102

DB 425 AYQTAFICLGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484

QY 103 LQNMAAHWVFELETHDGHQPOLNRRRLVYAATFLLFPLNLVGMAMXXXC----- 149

DB 485 LQNMAAHWVFELETHDGHQPOLNRRRLVYAATFLLFPLNLVGMAMVATRWRLSALYNAIHL 544

QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTMAAPQD 203

OS :::: |

Db 545 GQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLLQTKDSMAKARPAGCAXGRAPWGLAYTLHLNPTLQVFRKTALLGANG 263
|||||

Db 605 SLRPGEEDEGMQLLQTKDSMAKARPAGCAXGRAPWGLAYTLHLNPTLQVFRKTALLGANG 664

QY 264 AQP 266
|||

Db 665 AQP 667

RESULT 10
AAU83631
ID AAU83631 standard; protein; 667 AA.
XX
AC AAU83631;
XX
DT 08-MAY-2002 (first entry)
XX
DE Human PRO protein, Seq ID No 80.
XX
KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
KW breast cancer; prostate tumour; rectal tumour; liver tumour;
KW pericyte cell proliferation; chondrocyte cell proliferation;
KW tumour necrosis factor-alpha.
XX
OS Homo sapiens.
XX
PN WO200208288-A2.
XX
PD 31-JAN-2002.
XX
PF 29-JUN-2001; 2001WO-US021066.
XX
PR 20-JUL-2000; 2000US-0219556P.
PR 25-JUL-2000; 2000US-0220585P.
PR 25-JUL-2000; 2000US-0220605P.
PR 25-JUL-2000; 2000US-0220607P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220638P.
PR 25-JUL-2000; 2000US-0220664P.
PR 25-JUL-2000; 2000US-0220666P.
PR 26-JUL-2000; 2000US-0220893P.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-AUG-2000; 2000US-0222425P.
PR 22-AUG-2000; 2000US-0227133P.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 10-NOV-2000; 2000WO-US030873.
PR 28-NOV-2000; 2000US-0253646P.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001WO-US017092.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
DR WPI; 2002-172001/22.
XX N-PSDB; ABK33575.
XX
PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT useful for treating a PRO related disorder and for diagnosing tumors such
PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
PT or liver tumor.
XX

PS Claim 11; Fig 80; 359pp; English.
XX
CC The invention relates to one hundred and twenty two nucleic acids
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
CC agonists and antagonists are useful for treating a PRO related disorder.
CC The PRO polypeptides are useful for diagnosing tumours, especially lung
CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
CC liver tumour. The PRO polypeptides are useful for stimulating the
CC proliferation of, or gene expression, in pericyte cells, for stimulating
CC the proliferation or differentiation of chondrocyte cells, for
CC stimulating the release of tumour necrosis factor-alpha from human blood,
CC for stimulating or inhibiting the proliferation of normal human dermal
CC fibroblast cells. The PRO polypeptide may also be used as molecular
CC weight markers and for tissue typing. The PRO nucleic acids have
CC applications in molecular biology, including use as hybridisation probes,
CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
CC protein sequences of the invention
XX
SQ Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 5; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.4e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFVLVLRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
|||
Db 365 CYISALVLSCLLTFVLVLRSLVTHRTNLRALHARGAALDLSPLHRSPHPSRQAIFCWMFS 424
|||
QY 43 VPLPLPPLAGLLVQQLIFFLGTALAFVLMPVLHGRNLLFRSLESSWPFWLTALAVI 102
|||
Db 425 AYQTAFIGLGLLVQQLIFFLGTALAFVLMPVLHGRNLLFRSLESSWPFWLTALAVI 484
|||
QY 103 LQNMAAHWVFLFETHDGHQPLTNRRVLYAATFLLFPLNVLVGAMXXXC----- 149
|||
Db 485 LQNMAAHWVFLFETHDGHQPLTNRRVLYAATFLLFPLNVLVGAMVATWRVLLSALYNAIHL 544
|||
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 203
:::
Db 545 GQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 604
|||
QY 204 SLRPGEEDEGMQLLQTKDSMAKARPAGCAXGRAPWGLAYTLHLNPTLQVFRKTALLGANG 263
|||
Db 605 SLRPGEEDEGMQLLQTKDSMAKARPAGCAXGRAPWGLAYTLHLNPTLQVFRKTALLGANG 664
|||
QY 264 AQP 266
|||
Db 665 AQP 667

RESULT 11
AAU78575
ID AAU78575 standard; protein; 667 AA.
XX
AC AAU78575;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human Stra6 (PRO10282) protein.
XX
KW Human; cancer; Stra6; PRO10282; cytostatic; stromal disorder; tumour;
KW retinoid; Wnt; tumour antigen; leukaemia; lymphoid malignancy;
KW neuronal disorder; glial disorder; astrocytal disorder;
KW hypothalamic disorder; glandular disorder; macrophagal disorder;
KW epithelial disorder; blastocoealic disorder; chromosome 15q23.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Region 8. .12
FT /note= "N Glycosylation site"
FT Region 50. .56
FT /note= "N-myristoylation site"

FT Domain 54. .69
/note= "Transmembrane domain"
FT Domain 102. .119
/note= "Transmembrane domain"
FT Region 132. .140
/note= "ATP/GTP binding site motif A"
FT Domain 148. .166
/note= "Transmembrane domain"
FT Region 176. .182
/note= "N-myristoylation site"
FT Domain 207. .222
/note= "Transmembrane domain"
FT Region 241. .247
/note= "N-myristoylation site"
FT Domain 301. .320
/note= "Transmembrane domain"
FT Region 317. .323
/note= "N-myristoylation site"
FT Region 341. .347
/note= "N-myristoylation site"
FT Domain 364. .380
/note= "Transmembrane domain"
FT Region 364. .375
/note= "lipoprotein lipid attachment site"
FT Domain 431. .451
/note= "Transmembrane domain"
FT Domain 474. .489
/note= "Transmembrane domain"
FT Region 525. .531
/note= "N-myristoylation site"
FT Domain 560. .535
/note= "Transmembrane domain"
FT Region 627. .633
/note= "N-myristoylation site"
FT Region 631. .637
/note= "N-myristoylation site"
FT Region 640. .646
/note= "N-myristoylation site"
FT Region 661. .667
/note= "N-myristoylation site"

WO200218608-A2.

07-MAR-2002.

10-JUL-2001; 2001WO-US021635.

29-AUG-2000; 2000US-0228914P.

11-JAN-2001; 2001US-00759056.

10-JUL-2001; 2001US-00901812.

(GETH) GENENTECH INC.

Tice D, Pennica D, Polakis P, Szeto W;

WPI; 2002-292202/33.

N-PSDB; ABK47278.

Selectively enhancing the expression of a protein in a tumor cell characterized by aberrant Wnt signaling, useful for enhancing the efficacy of treatment of cancers, comprises treating the tumor cell with a retinoid.

Example 1; Fig 2; 141pp; English.

This invention relates to a novel method for selective enhancement of the expression of a protein in a tumor cell characterized by aberrant Wnt signalling by treating the tumor cell with a retinoid. The method is useful for enhancing the efficacy of treatment of cancers characterised by aberrant Wnt signalling, and for identifying tumour antigens the expression of which is selectively enhanced by retinoid treatment. The method is also useful in the early detection of tumours for early intervention. The tumour antigens are useful as targets for cancer

CC therapy, since selective enhancement of their expression by retinoid
CC treatment relative to normal cells improves the efficacy and therapeutic
CC index of cancer therapeutics directed against these antigens. Antibodies
CC binding to the tumour antigens may be administered for the treatment of
CC various disorders or conditions, including those characterised by
CC overexpression and/or activation of the tumour antigens, where such
CC conditions or disorders include benign or malignant tumours; leukaemias
CC and lymphoid malignancies; neuronal, glial, astrocytal, hypothalamic and
CC other glandular, macrophagal, epithelial, stromal and blastocoeleic
CC disorders. The present sequence represents the human Stra6 protein
CC (PRO10282) which is selectively upregulated by retinoid using the method
CC of the invention. The gene encoding the human Stra6 protein is located on
CC human chromosome 15q23

XX Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 5; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.4e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHSRQAIFCWMSPS 424
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMMAHWVFELETHDHPQLNRRRLVYAATFLLFPLNLVVGAMXXXC----- 149
Db 485 LQNMMAHWVFELETHDHPQLNRRRLVYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLLLQAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDGYYTYRNFLEKIEVSQSHPAMTAFCSLLLLQAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAYGRARWGLAYTLHNPTLOVERKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASGRARWGLAYTLHNPTLOVERKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667

RESULT 12

ABB05048

ID ABB05048 standard; protein; 667 AA.

XX ABB05048;

AC ABB05048;

XX 25-MAR-2002 (first entry)

DE Human NOV8c protein SEQ ID NO:32.

XX Human; NOVX; cytostatic; antidiabetic; anorectic; antibacterial;
KW fungicide; virucide; protozoacide; analgesic; antiparkinsonian;
KW antiasthmatic; hypotensive; osteopathic; antiinflammatory; antiulcer;
KW neuroprotective; cardiant; antiallergic; antidepressant; nootropic;
KW anticonvulsant; neuroleptic; gene therapy; vaccine; immune disease;
KW developmental disease; taste and scent detectability disorder; infection;
KW Burkitt's lymphoma; signal transduction pathway disorder; pain; cancer;
KW retinal disease; feeding disorder; asthma; Parkinson's disease; ulcer;
KW noninsulin-dependent diabetes mellitus; acute heart failure; hypotension;
KW hypertension; urinary retention; osteoporosis; Crohn's disease; allergy;
KW multiple sclerosis; angina pectoris; myocardial infarction; delirium;
KW benign prostatic hypertrophy; manic depression; dementia; dyskinesia;
KW severe metal retardation; Huntington's disease; chromosome 15;
XX Gilles de la Tourette syndrome.

OS Homo sapiens.

XX WO200190155-A2.

PN

XX PD 29-NOV-2001.

XX PF 24-MAY-2001; 2001WO-US017073.

XX XX 24-MAY-2000; 2000US-0206679P.

PR 24-MAY-2000; 2000US-0206688P.

PR 24-MAY-2000; 2000US-0206829P.

PR 30-MAY-2000; 2000US-0207748P.

PR 30-MAY-2000; 2000US-0207798P.

PR 31-MAY-2000; 2000US-0208263P.

PR 02-JUN-2000; 2000US-020831P.

PR 05-JUN-2000; 2000US-0209451P.

PR 07-JUN-2000; 2000US-0210060P.

PR 20-JUL-2000; 2000US-0219507P.

PR 26-JUL-2000; 2000US-0221337P.

PR 31-JUL-2000; 2000US-0221927P.

PR 19-JAN-2001; 2001US-0263135P.

PR 24-JAN-2001; 2001US-0263688P.

PR 24-JAN-2001; 2001US-0263694P.

PR 23-MAY-2001; 2001US-00863776.

XX XX (CURA-) CURAGEN CORP.

XX PA Spytek KA, Majumder K; Tchernev VT, Mishra V, Padigaru M;

XX PI Spaderna SK, Shenoy S, Rastelli L, Li L, Taupier RJ, Gangolli E;

XX DR WPI; 2002-106174/14.

DR N-PSDB; ABA92669.

XX XX Novel polypeptide, useful for treating pain, cancer, urinary retention,

PT osteoporosis, Crohn's disease, diabetes, acute heart failure, dementia,

PT asthma, ulcer, allergy and Huntington's disease, comprises isolated

PT polypeptide NOVX.

XX XX Claim 1; Page 106; 266pp; English.

XX XX The present invention describes human NOVX proteins (NOV1 to NOV9). NOVX

CC proteins (I) have cytostatic, antidiabetic, anorectic, antibacterial,

CC fungicide, virucide, protozoacide, analgesic, antiparkinsonian,

CC antiasthmatic, hypotensive, osteopathic, antiinflammatory, antiulcer,

CC neuroprotective, cardiant, antiallergic, antidepressant, nootropic,

CC anticonvulsant and neuroleptic activities. (I) and polynucleotides (II)

CC can be used in gene therapy and vaccine production. (I) and (II) can be

CC used for treating or preventing a NOVX-associated disorder such as

CC cardiomyopathy, atherosclerosis and diabetes in a human, where the

CC disorder is related to cell signal processing and metabolic path way

CC modulation, in a subject, preferably human. (I) and (II) can be used for

CC diagnosing, preventing or treating developmental diseases, immune

CC diseases, taste and scent detectability disorder, Burkitt's lymphoma,

CC signal transduction pathway disorders, retinal diseases including those

CC involving photoreception, cell growth rate disorders, feeding disorders,

CC noninsulin-dependent diabetes mellitus, infections, pain, cancer, asthma,

CC Parkinson's disease, acute heart failure, hypotension, hypertension,

CC urinary retention, osteoporosis, Crohn's disease, multiple sclerosis,

CC Albright Hereditary Osteodystrophy, angina pectoris, ulcers, myocardial

CC infarction, allergies, benign prostatic hypertrophy, manic depression,

CC delirium, dementia, severe metal retardation and dyskinesias, such as

CC Huntington's disease or Gilles de la Tourette syndrome. The present

CC sequence represents the human NOV8c protein from the present invention.

CC Human NOV2a is isolated to chromosome 15

XX XX Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 5; Length 667;

Best Local Similarity 76.6%; Pred. No. 2.4e-106;

Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42

DB 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHPSRQAIFCWMFS 424

QY 43 VPLPLPLAGLLVQQLIFFLGTGTALAFVLMFVLHGRNLLFRSLESSWPFWLTALAVI 102

Db 425 AYQTAFICLGLLVQQLIFFLGTGTALAFVLMFVLHGRNLLFRSLESSWPFWLTALAVI 484

QY 103 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMXXXC----- 149

Db 485 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMVATWRVLLSALYNAIHL 544

QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLQAQSLLPRTMAAPQD 203

Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLQAQSLLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAGXRGARWGLAYTLHNPQLQVFRKLTALLGANG 263

Db 605 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGARWGLAYTLHNPQLQVFRKLTALLGANG 664

QY 264 AQP 266

Db 665 AQP 667

RESULT 13

AAO19413

ID AAO19413 standard; protein; 667 AA.

XX AAO19413;

AC AAO19413;

XX 10-DEC-2002 (first entry)

DT Human molecule for disease detection and treatment protein #16.

DE Human; molecule for disease detection and treatment; MDDT; gene therapy;

XX cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic;

KW antiinflammatory; antiasthmatic; cerebroprotective; nootropic;

KW neuroprotective; antiparkinsonian; cardiant; antianginal.

XX Homo sapiens.

OS WO200270709-A2.

XX 12-SEP-2002.

PD 08-FEB-2002; 2002WO-US0003709.

XX 09-FEB-2001; 2001US-0268117P.

PR 15-FEB-2001; 2001US-0269618P.

PR 23-FEB-2001; 2001US-0271118P.

PR 07-MAR-2001; 2001US-0274486P.

PR 09-MAR-2001; 2001US-0274436P.

PR 28-NOV-2001; 2001US-0334229P.

PR 01-FEB-2002; 2002US-0353284P.

XX (INCY-) INCYTE GENOMICS INC.

PA Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y;

XX Honchell CD, Yue H, Ding L, Gietzen KJ, Ison CH, Lu DAM;

PI Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;

PI Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;

PI Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;

XX WPI; 2002-713453/77.

DR N-PSDB; AAL49942.

XX New human molecules for disease detection and treatment (MDDT), useful

PT for diagnosing, treating and preventing diseases or conditions associated

PT with the aberrant MDDT expression, e.g. cancer, AIDS, asthma, diabetes,

PT hepatitis.

XX Claim 1; Page 148-150; 177pp; English.

PS The present invention relates to human proteins and coding sequences of

XX molecules for disease detection and treatment MDDT. The sequences can be

CC used in the treatment of diseases associated with the decreased

CC expression or overexpression of MDDT, such as cell proliferative (cancer,

CC atherosclerosis, hepatitis), autoimmune/inflammatory (e.g. AIDS,
CC allergies, Addison's disease, asthma), developmental (dwarfism, renal
CC tubular acidosis), neurological (e.g. stroke, Parkinson's disease,
CC epilepsy) and cardiovascular (congestive heart failure, myocardial
CC infarction, angina pectoris) disorders. The present sequence is a protein
CC of the invention
XX Sequence 667 AA;
SQ
Query Match 65.5%; Score 1110.5; DB 5; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.4e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 424
QY 43 VPLPLPLAGLLVQIIFFLGTALAFVLMVLPVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICGLLVQIIFFLGTALAFVLMVLPVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHVVFLETHDGHQPQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLSALYNAIHL 149
Db 485 LQNMAAHVVFLETHDGHQPQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPMATFCSLLQAOQLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPMATFCSLLQAOQLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667
RESULT 14
ABU80778
ID ABU80778 standard; protein; 667 AA.
XX
AC ABU80778;
XX
DT 23-JUN-2003 (first entry)
XX
DE Human PRO polypeptide #40.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression; tumour; cytostatic.
XX
OS Homo sapiens.
XX
PN US2003036635-A1.
XX
PD 20-FEB-2003.
XX
PF 28-AUG-2002; 2002US-00230163.
XX
PR 25-JUL-2000; 2000US-0220638P.
PR 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
DR WPI; 2003-342045/32.
DR N-PSDB; ACA66880.
XX
PT One hundred and twenty two nucleic acids encoding PRO polypeptides,

PT useful for the manufacture of a medicament for diagnosing or treating
PT tumor.
XX Claim 11; Fig 80; 314pp; English.
PS
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are
CC useful in diagnostic assays for PRO, by detecting its expression in
CC specific cells, tissues or serum, and for affinity purification of PRO
CC from recombinant cell culture or natural sources. ABU80739-ABU80860
CC represent the human PRO polypeptides of the invention. Note: The sequence
CC data for this patent was obtained in electronic format directly from the
CC USPTO web site at seqdata.uspto.gov/psipsDIDEntry.html
XX
SQ Sequence 667 AA;
Query Match 65.5%; Score 1110.5; DB 6; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.4e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 424
QY 43 VPLPLPLAGLLVQIIFFLGTALAFVLMVLPVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICGLLVQIIFFLGTALAFVLMVLPVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHVVFLETHDGHQPQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLSALYNAIHL 149
Db 485 LQNMAAHVVFLETHDGHQPQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPMATFCSLLQAOQLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPMATFCSLLQAOQLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667
RESULT 15
ABO33744
ID ABO33744 standard; protein; 667 AA.
XX
AC ABO33744;
XX
DT 17-SEP-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10282.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic;
KW antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;
KW chondrocyte stimulator; pericyte stimulator; fibroblast modulator;
KW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW liver tumour; bone disorder; cartilage disorder; sports injury;
KW arthritis; wound.
XX
OS Homo sapiens.
XX
PN US2003045687-A1.
XX
PD 06-MAR-2003.
XX
PF 12-AUG-2002; 2002US-00218631.

XX 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
DR WPI; 2003-512315/48.
DR N-PSDB; ACD68632.
XX
PT New genes, and its encoded secreted and transmembrane polypeptides,
PT useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte or
PT pericyte proliferation, especially for treating lung tumors, arthritis or
PT wounds in a mammal.
XX
PS Claim 11; Fig 80; 314pp; English.
XX
CC The invention describes an isolated nucleic acid molecule comprising a
CC sequence with at least 80% identity to: (a) a nucleotide encoding any of
CC 122 PRO (secreted and transmembrane) polypeptides whose sequences are
CC fully defined in the specification; or (b) any of 122 nucleotide
CC sequences having e.g. 4834, 2504 or 1759 bp fully defined in the
CC specification; or the full length coding sequence of any these 122
CC nucleotide sequences. The PRO polypeptides or polynucleotides are useful
CC as pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC particularly useful for detecting tumours (e.g. lung tumour, colon
CC tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)
CC in a mammal, for stimulating the release of TNF-alpha from human blood,
CC for stimulating the proliferation or differentiation of chondrocyte
CC cells, for stimulating proliferation of pericyte cells, or for modulating
CC normal human dermal fibroblast proliferation. The PRO nucleic acid or
CC polypeptide is also useful for treating tumours or various bone and/or
CC cartilage disorders (e.g. sports injuries or arthritis), or wounds. The
CC PRO polypeptides are useful in drug screening, particularly as targets
CC for therapeutic intervention in these diseases, and in the diagnostic
CC determination of the presence of these diseases. The PRO polypeptides are
CC also useful as molecular weight markers, or for chromosome
CC identification. The PRO genes are useful as hybridisation probes, or for
CC screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may
CC also be used in gene therapy, particularly for replacing a defective
CC gene. This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide

XX SQ Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 6; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.4e-106;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42
Db |||||
365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHPSRQAIFCWMFS 424
QY 43 VPLPLPPLAGLLVQQLIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db |||||
425 AYQTAFICGLLVQQLIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHVWFLETHDGHQPQLTNRRLVYAATFLFPFLNVGVAMXXXC----- 149
Db |||||
485 LQNMAAHVWFLETHDGHQPQLTNRRLVYAATFLFPFLNVGVAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 203
Db :::
545 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKARGPCAXGRARWGILAYTLLHNPTLQVFRKTLIGANG 263
Db |||||
605 SLRPGEEDEGMQLLQTKDSMAKARGPCASGRARWGILAYTLLHNPTLQVFRKTLIGANG 664
QY 264 AQP 266

Db ||| 665 AQP 667

Search completed: February 8, 2005, 13:36:13
Job time : 146.513 secs

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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:30:00 ; Search time 38.4542 Seconds
(without alignments)
630.905 Million cell updates/sec

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Perfect score: 1695
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
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4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	440	26.0	88	4	US-09-205-258-274
2	98.5	5.8	157	4	US-09-252-991A-30836
3	94.5	5.6	726	4	US-09-252-991A-18271
4	93.5	5.5	422	4	US-09-252-991A-19452
5	93	5.5	2016	3	US-09-634-920-4
6	93	5.5	2016	4	US-09-514-907A-2
7	93	5.5	2016	4	US-09-896-994-2
8	93	5.5	2016	4	US-09-840-125-4
9	92	5.4	1272	4	US-09-949-016-7472
10	92	5.4	2146	4	US-09-949-016-6947
11	90.5	5.3	557	4	US-09-902-540-12884
12	90.5	5.3	1241	4	US-08-714-741-34
13	90	5.3	327	4	US-09-252-991A-29468
14	89.5	5.3	275	4	US-09-252-991A-16752
15	89.5	5.3	434	4	US-09-252-991A-30855
16	89	5.3	249	4	US-09-602-777A-344
17	88.5	5.2	501	4	US-09-252-991A-32497
18	87	5.1	618	3	US-08-866-381A-6
19	87	5.1	621	1	US-08-208-887A-49
20	87	5.1	621	3	US-09-280-598-18
21	87	5.1	621	4	US-08-945-771-4
22	86.5	5.1	465	4	US-09-496-239A-18
23	86	5.1	597	4	US-09-252-991A-24252
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25	85	5.0	809	4	US-09-252-991A-31759
26	84.5	5.0	299	4	US-09-393-634-41
27	84.5	5.0	738	4	US-09-949-016-10957

Sequence 32299, A
Sequence 7581, Ap
Sequence 17434, A
Sequence 7109, Ap
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Sequence 11, Appl
Sequence 11, Appl
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Sequence 22843, A
Sequence 12, Appl
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Sequence 24536, A
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Sequence 387, App

ALIGNMENTS

RESULT 1
US-09-205-258-274
; Sequence 274, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: PZ007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,881
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,880
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; EARLIER APPLICATION NUMBER: 60/048,896
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,020
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; EARLIER APPLICATION NUMBER: 60/048,876
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; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
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; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
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; EARLIER APPLICATION NUMBER: 60/048,899
; EARLIER FILING DATE: 1997-06-06
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; EARLIER APPLICATION NUMBER: 60/048,900
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,901
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,892
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,915
; EARLIER FILING DATE: 1997-06-06

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; EARLIER APPLICATION NUMBER: 60/049,019
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,970
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,972
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,916
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,373
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,875
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,374
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,917
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,949
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,883
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,897
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,898
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070,923
; EARLIER FILING DATE: 1997-12-18
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 274
; LENGTH: 88
; TYPE: prt
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (53)
; OTHER INFORMATION: Xaa equals any of
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (88)
; OTHER INFORMATION: Xaa equals stop tr
; US-09-205-258-274

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Query Match	26.0%;	Score 440;	DB 4;	Length 88;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-39;				
Matches 87;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		
QY	180	MTAFCSLLLLQAQSL	LPRTMAAPQDSL	RPGEDEGMQLLQT	KDSDMAKGARPGAXRGRARWG	239
Db	1	MTAFCSLLLLQAQSL	LPRTMAAPQDSL	RPGEDEGMQLLQT	KDSDMAKGARPGAXRGRARWG	60
QY	240	LAYTLLHNPTLQVFR	KTALLGANGAQP	266		
Db	61	LAYTLLHNPTLQVFR	KTALLGANGAQP	87		

RESULT 2
US-09-252-991A-30836
; Sequence 30836, Application US/09253991A
; Patent No. 6551795

```

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30836
; LENGTH: 157
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30836

```

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Query Match          5.8%; Score 98.5; DB 4; Length 157;
Best Local Similarity 33.0%; Pred. NO. 0.015;
Matches 30; Conservative 6; Mismatches 26; Indels 29; Gaps 3;

QY 195 PRTMAAPQDSLRLPGEEDEGMQLLTQKDSMAKGARPGAXGRGRARWGLAYTLHLNPTLQVFR 254
      | : ||| : : ||||| ||||| |||||
Db 2 PAARRGCRDRARP-----RPRRSFAPGARPGARRGRARHSTA----- 38

QY 255 KTALLGANGAQPCSSL--PGSPPSITPAMQP 283

Db 39 ----TGRRPARPAATLAGPGSPPGCRPAIP 65

```

RESULT 3
US-09-252-991A-18271
; Sequence 18271, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18271
; LENGTH: 726
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18271

	Query Match	5.6%;	Score 94.5;	DB 4;	Length 726;
	Best Local Similarity	31.7%;	Pred. No. 0.31;		
	Matches 33;	Conservative 10;	Mismatches 44;	Indels 17;	Gaps 5;
QY	194 LPR--TMAAPQDSLPGEEDEG--MQLLQTKDSMAKGARPGAXRGRARWGLAYTL LNPT	249			
	: : : : : : : :				
Db	273 LPQGTAVLHRDPGRPGDPCGGDRLLLPDPQAQDSHPGDPHGRG--GRFP-----	324			
QY	250 LQVFRKTALLGANGAQCPSILPGSPPSITPAMQPAGPPDHGXV	293			
	: : : : : : : : :				
Db	325 ----RRVP LL PRAGLQPGGLPERQPL-PRLD PGWP AVHQGPV	363			

RESULT 4
US-09-252-991A-19452
; Sequence 19452, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

;; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: 107196.136
;; CURRENT APPLICATION NUMBER: US/09/252,991A
;; CURRENT FILING DATE: 1999-02-18
;; PRIOR APPLICATION NUMBER: US 60/074,788
;; PRIOR FILING DATE: 1998-02-18
;; PRIOR APPLICATION NUMBER: US 60/094,190
;; PRIOR FILING DATE: 1998-07-27
;; NUMBER OF SEQ ID NOS: 33142
;; SEQ ID NO 19452
;; LENGTH: 422
;; TYPE: PRT
;; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19452

Query Match 5.5%; Score 93.5; DB 4; Length 422;
Best Local Similarity 23.8%; Pred. No. 0.19;
Matches 48; Conservative 14; Mismatches 73; Indels 67; Gaps 10;
QY 135 LPPLNLVGMXXXCSPSIAIRHPTPGYTYRNFLEKIEVSQSHP-AMTAFCSLLQLQAQSL 193
Db 129 LIPLGCFVPLVSILCHRRRLNAKPRSG-----QTAPDSQAFLSL---RYSL 172
QY 194 LPRTMAAPQDSLRPGEEDEGMQLLQTKDSMAKGARPGAXRG-----RAR 237
Db 173 ALKISATP-----GVDEYKTR-----KGNMSGPLRGVFLTPGTPAPRKLVTSSRG 217
QY 238 WGLAYTLLHNPTLQVFRKTKALLGANGAQPCSSLPSPSITPAMQAGPDHGXGVEVCL 297
Db 218 NGNAY---HQHSISHTASS-----HHLPGGAPCLTPSSTPAVSPITIGSCTPCC 264
QY 298 HWEPPXGSAPTWLWESQQGF 319
Db 265 -WMRKAGSCSPTW-----YGCW 280

RESULT 5
US-09-634-920-4
; Sequence 4, Application US/09634920
; Patent No. 6342357
; GENERAL INFORMATION:
; APPLICANT: Splawski, Igor
; APPLICANT: Keating, Mark T.
; TITLE OF INVENTION: ALTERATIONS IN THE LONG QT SYNDROME GENES KVLQT1 AND
; TITLE OF INVENTION: SCN5A AND METHODS FOR DETECTING SAME
; FILE REFERENCE: 2323-155
; CURRENT APPLICATION NUMBER: US/09/634,920
; CURRENT FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: 60/190,057
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/147,488
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 4
; LENGTH: 2016
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-634-920-4

Query Match 5.5%; Score 93; DB 3; Length 2016;
Best Local Similarity 23.8%; Pred. No. 1.8;
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;
QY 35 QFSWNLFSPVLPPLAGLLVQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPF 94
Db 778 QQGWNIFD-----SIIVLSLMELGLSRMSNL---SVLSRFRLLRVFKLAKSWPTL 825
QY 95 -----LTLALAVILQNMAAHV-----FLETHDGHQPQLTNR---RVLY 129
Db 826 NTLIKIIGNSVGALGNLTIVLAIIVFIFAVVGMLFGKNYSELSDSDGLLPRWHMDDFF 885
QY 130 AATFLLFPLNLVGMXXXCSPSIAIRHPTPGYTYRNFLEKIEVSQSHPAMTAFCSLLQL 189

Db 886 HAFLIIF--RILGEWIETMWDCEVSGQS---LCLLVFLLVMVIGNLVNLFLALLLS 940
QY 190 AQSLLPRTMAAPQDSLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLL-HNP 248
Db 941 SFS-----ADNLTAPDEDEMNQL--ALARIQRLFRVFKRTTWDFFCCGLLRHP 989
QY 249 TLQVFRKTKALLGANGAQPCSSLPSPSITPAMQAGPPD 288
Db 990 -----QKPAALAAQQLPSCIATPYSP-----PPE 1015

RESULT 6
US-09-514-907A-2
; Sequence 2, Application US/09514907A
; Patent No. 6567705
; GENERAL INFORMATION:
; APPLICANT: Kenneth B. Stokes
; Jos,e Morissette
; TITLE OF INVENTION: SYSTEMS FOR ENHANCING CARDIAC SIGNAL
; SENSING BY CARDIAC PACEMAKERS THROUGH
; GENETIC TREATMENT
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6567705ris LLP
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/514,907A
; FILING DATE: 08-Feb-2000
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul K. Legaard
; REGISTRATION NUMBER: 38,534
; REFERENCE/DOCKET NUMBER: MEDT-0029/P-3586
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2016 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-514-907A-2

Query Match 5.5%; Score 93; DB 4; Length 2016;
Best Local Similarity 23.8%; Pred. No. 1.8;
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;
QY 35 QFSWNLFSPVLPPLAGLLVQIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPF 94
Db 778 QQGWNIFD-----SIIVLSLMELGLSRMSNL---SVLSRFRLLRVFKLAKSWPTL 825
QY 95 -----LTLALAVILQNMAAHV-----FLETHDGHQPQLTNR---RVLY 129
Db 826 NTLIKIIGNSVGALGNLTIVLAIIVFIFAVVGMLFGKNYSELSDSDGLLPRWHMDDFF 885
QY 130 AATFLLFPLNLVGMXXXCSPSIAIRHPTPGYTYRNFLEKIEVSQSHPAMTAFCSLLQL 189
Db 886 HAFLIIF--RILGEWIETMWDCEVSGQS---LCLLVFLLVMVIGNLVNLFLALLLS 940
QY 190 AQSLLPRTMAAPQDSLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLL-HNP 248

Db 941 SFS-----ADNLTAPDEDEMNNLQL--ALARIQGLRFVVKRTTWDFFCCGLLRHP 989

QY 249 TLQVFRKTTALLGANGAQP-CSSLPGSPPSITPAMQAGPPD 288

Db 990 -----QKPAALAAQGLPSCIATPYSPP-----PPE 1015

RESULT 7

US-09-896-994-2

; Sequence 2, Application US/09896994

; Patent No. 6665563

GENERAL INFORMATION:

APPLICANT: Ken Stokes

APPLICANT: Jos e Morissette

TITLE OF INVENTION: SYSTEMS AND METHODS FOR ENHANCING CARDIAC

SIGNAL SENSING BY CARDIAC PACEMAKERS THROUGH GENETIC TREATM

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 6665563ris

STREET: One Liberty Place - 46th Floor

CITY: Philadelphia

STATE: PA

COUNTRY: U.S.A.

ZIP: 19103

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WordPerfect 6.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/896,994

FILING DATE: 02-Jul-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/514,907

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Paul K. Legaard

REGISTRATION NUMBER: 38,534

REFERENCE/DOCKET NUMBER: MEDT-0029/P-3586

TELECOMMUNICATION INFORMATION:

TELEPHONE: (215) 568-3100

TELEFAX: (215) 568-3439

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2016 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: unknown

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-896-994-2

Query Match 5.5%; Score 93; DB 4; Length 2016;

Best Local Similarity 23.8%; Pred. No. 1.8;

Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

QY 35 QFSWNLFSPVLPPLPPLAGLLVQQIIFFLGTTALAFVLVMPVLHGRNLLFFRSLESSWPFW 94

Db 778 QQGNWIFD-----SIIVLSLMEIGLSRMSNL--SVLSRFRLLRVFKLAKSWPTL 825

QY 95 -----LTLALAVILQNMAAHV-----FLETHDGHPLTNR---RVLY 129

Db 826 NTLKIIGNSVGALGNLTVLAIIVFIFAVVGMQLFGKNYSELRSDSGLLRWHMMDFF 885

QY 130 AATFLLFPLNVLVGMAMXXCSPSIAIRHPTPGYTYTYRNFLKIEVSQSHPMATFCSLLQ 189

Db 886 HAFLIIF--RILCGEWIETWDCMEVSGQS---LCLLVFLVMVIGNLVNLFLLALLS 940

QY 190 AQSLLPRTMAAPQDSLPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLL-HNP 248

Db 941 SFS-----ADNLTAPDEDEMNNLQL--ALARIQGLRFVVKRTTWDFFCCGLLRHP 989

QY 249 TLQVFRKTTALLGANGAQP-CSSLPGSPPSITPAMQAGPPD 288

Db 990 -----QKPAALAAQGLPSCIATPYSPP-----PPE 1015

RESULT 8

US-09-840-125-4

; Sequence 4, Application US/09840125

; Patent No. 6787309

GENERAL INFORMATION:

APPLICANT: Splawski, Igor

APPLICANT: Keating, Mark T.

TITLE OF INVENTION: ALTERATIONS IN THE LONG QT SYNDROME GENES KVLQT1 AND

TITLE OF INVENTION: SCN5A AND METHODS FOR DETECTING SAME

FILE REFERENCE: 2323-155

CURRENT APPLICATION NUMBER: US/09/840,125

CURRENT FILING DATE: 2001-04-24

PRIOR APPLICATION NUMBER: 09/634,920

PRIOR FILING DATE: 2000-08-09

PRIOR APPLICATION NUMBER: 60/147,488

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 4

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 2016

TYPE: PRT

ORGANISM: Homo sapiens

US-09-840-125-4

Query Match 5.5%; Score 93; DB 4; Length 2016;

Best Local Similarity 23.8%; Pred. No. 1.8;

Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

QY 35 QFSWNLFSPVLPPLPPLAGLLVQQIIFFLGTTALAFVLVMPVLHGRNLLFFRSLESSWPFW 94

Db 778 QQGNWIFD-----SIIVLSLMEIGLSRMSNL--SVLSRFRLLRVFKLAKSWPTL 825

QY 95 -----LTLALAVILQNMAAHV-----FLETHDGHPLTNR---RVLY 129

Db 826 NTLKIIGNSVGALGNLTVLAIIVFIFAVVGMQLFGKNYSELRSDSGLLRWHMMDFF 885

QY 130 AATFLLFPLNVLVGMAMXXCSPSIAIRHPTPGYTYTYRNFLKIEVSQSHPMATFCSLLQ 189

Db 886 HAFLIIF--RILCGEWIETWDCMEVSGQS---LCLLVFLVMVIGNLVNLFLLALLS 940

QY 190 AQSLLPRTMAAPQDSLPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLL-HNP 248

Db 941 SFS-----ADNLTAPDEDEMNNLQL--ALARIQGLRFVVKRTTWDFFCCGLLRHP 989

QY 249 TLQVFRKTTALLGANGAQP-CSSLPGSPPSITPAMQAGPPD 288

Db 990 -----QKPAALAAQGLPSCIATPYSPP-----PPE 1015

RESULT 9

US-09-949-016-7472

; Sequence 7472, Application US/09949016

; Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 7472

STREET: 530 Fifth Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/714,741
FILING DATE: 16-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Frommer Esq., William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454312-2460
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 1241 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: amino acid
US-08-714-741-34

Query Match 5.3%; Score 90.5; DB 4; Length 1241;
Best Local Similarity 23.8%; Pred. No. 1.7; Indels 81; Gaps 14;
Matches 80; Conservative 37; Mismatches 138; Indels 81; Gaps 14;
QY 7 VLSCLTFLVLMRSLVTHRL-GSGSGDGFQSWNLFVPLPLPPLAGLLVQIIFF-LGT 64
Db 788 LLEGLYSVALLEALATHRLEASPPRGLGLY---LYSTHRLNASPGLEASPLYSGLAL 844
QY 65 TALAFLVLMPLVHGRNLLFF-----RSLESSWPFWLTALAVILQNMAAHWVFE 114
Db 845 AALAGLALAGLLEASNGLLYSVALGLALALEGLNASGNLVALALAGLGLG--LLE 902
QY 115 TH-----DGHPLQTNRRVLYAATFLFPL-----NVLVGAMXXXCSPSIAIRHPTPG 161
Db 903 SERLYSLEGLASPNLELYSASPALAGLTHRASNASNVALG----LASPTYRILELYSG 958
QY 162 YTYRNLK-----IEVSQSHPAMTAFCSLLQAOQLPRTMAAPQDSLRPGEDEGMQL 216
Db 959 LGLYLEGLGLALAILEALATHRLYSLSALAGLLEGLLYST-----HRGLNL 1005
QY 217 -----LQTKDSMAKGARPGAXRG-RARWGLAYTLLHNPTLQVFRKTA 260
Db 1006 YSGLLEASPALAALAEASNGLLEGLYPRASPGLYASPGGLGLTHRPRALAPRALAPRG 1065
QY 261 AN-----GAQPCSSSLPGSPPSITP-AMQP 283
Db 1066 LNPRGLYSPRALAGLGLPRGLASNPRALAPRALAP 1101

RESULT 13
US-09-252-991A-29468
; Sequence 29468, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29468
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29468
Query Match 5.3%; Score 90; DB 4; Length 327;
Best Local Similarity 21.9%; Pred. No. 0.32;
Matches 70; Conservative 27; Mismatches 126; Indels 96; Gaps 11;
QY 28 SGGSGDGFQSWNLFVPLPLPPLAGLLVQ-----IIFLGTALAFV----- 71
Db 21 SSGGPTMQFFLRYAYAPLFWSGFIGLATWQVGYROASHAWLVALFLGALGLSFLAERRLP 80
QY 72 -----LMPVLHGR-----NLL-----FFRSLESSWPFWLTALAV 101
Db 81 YQPRWNRPHADRLRDVLAHVSNESLNALGILALPLLAGVLGFWPVPQAWPLWLQLLAI 140
QY 102 ILQNMAAHVTFLETHDGHPLQTNRRVLYAATFLFPLNVLVGMXXXCSPSIAIRHPTPG 161
Db 141 VLADLGITLVHYASH-----RSALLWRLH-----AVHHSVQR 172
QY 162 YTYRNLKIEVSQSHPAMTAFCSLLQAOQLPRTMAAPQDSLRPGEDEGMQLLQTKD 221
Db 173 LYGFNGLMKHPLHLGLEALGGLTLPDLLG---VPQTVAAALAF-----IGIQLLQHS 223
QY 222 SMAKGARPGAXRGARWGLAYTLLH-----NPTLQVFRKTAALLGANGAQCSSLPG 272
Db 224 NV--DMRIGGLRHVFAWAPLHLHRIYGRAGDVNFALFFSVWDRLLGLTALHRPDYRLDS 281
QY 273 SPSSITPAMQAGPPDXG 291
Db 282 TDMGI--GDQPDYPRDYAG 298
RESULT 14
US-09-252-991A-16752
; Sequence 16752, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16752
; LENGTH: 275
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16752
Query Match 5.3%; Score 89.5; DB 4; Length 275;
Best Local Similarity 25.9%; Pred. No. 0.28;
Matches 43; Conservative 16; Mismatches 58; Indels 49; Gaps 8;
QY 168 FLKIEVSQSHPAMTAFCSLLQAOQLPRTMAAPQDSLRPGEDEGMQLLQTKDSMAKGA 227
Db 51 FMKTNVRSRPTSPASSTARAAPAVSPR-----LAQTSAPWSRV 91
QY 228 RPGAXR-GRAR-----WGLAYTLLHNPTLQVFRKTA-----LLGANGAQPC-----SSLP 271
Db 92 RAGSSRCASARAWFCW-----RASRAAAACCNCSVLGATCSQPCSPSSSAVP 139
QY 272 GSPPS-ITPAMQAGPPDXGXVEVCLHWEYXXGSAPPTLWESQQ 316

Search completed: February 8, 2005, 13:42:12
Job time : 40.4542 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:32:20 ; Search time 108.54 Seconds
(without alignments)
975.246 Million cell updates/sec

Title: US-09-816-653A-4
Perfect score: 1695
Sequence: 1 CYISALVLSCLLTPLVLMRS.....APPTWLWESQQGFWRKLLVG 325

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1373511 seqs, 325702437 residues

Total number of hits satisfying chosen parameters: 1373511

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*
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20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1679	99.1	325	10	US-09-816-653A-4
2	1110.5	65.5	560	10	US-09-863-776-69
3	1110.5	65.5	599	15	US-10-104-047-2306
4	1110.5	65.5	667	9	US-09-759-056-2
5	1110.5	65.5	667	9	US-09-901-812-2
6	1110.5	65.5	667	10	US-09-863-776-32
7	1110.5	65.5	667	10	US-09-863-776-67
8	1110.5	65.5	667	14	US-10-227-884-80
9	1110.5	65.5	667	14	US-10-230-163-80
10	1110.5	65.5	667	14	US-10-230-338-80
11	1110.5	65.5	667	14	US-10-218-631-80
12	1110.5	65.5	667	14	US-10-230-414-80
13	1110.5	65.5	667	14	US-10-232-224-80

14	1110.5	65.5	667	14	US-10-216-159A-80	Sequence 80, Appl
15	1110.5	65.5	667	14	US-10-218-849-80	Sequence 80, Appl
16	1110.5	65.5	667	14	US-10-227-873-80	Sequence 80, Appl
17	1110.5	65.5	667	14	US-10-227-883-80	Sequence 80, Appl
18	1110.5	65.5	667	14	US-10-219-076-80	Sequence 80, Appl
19	1110.5	65.5	667	14	US-10-230-434-80	Sequence 80, Appl
20	1110.5	65.5	667	14	US-10-219-003-80	Sequence 80, Appl
21	1110.5	65.5	667	14	US-10-219-075-80	Sequence 80, Appl
22	1110.5	65.5	667	14	US-10-219-464-80	Sequence 80, Appl
23	1110.5	65.5	667	14	US-10-219-466-80	Sequence 80, Appl
24	1110.5	65.5	667	14	US-10-219-479-80	Sequence 80, Appl
25	1110.5	65.5	667	14	US-10-219-481-80	Sequence 80, Appl
26	1110.5	65.5	667	14	US-10-230-260-80	Sequence 80, Appl
27	1110.5	65.5	667	14	US-10-232-231-80	Sequence 80, Appl
28	1110.5	65.5	667	14	US-10-232-233-80	Sequence 80, Appl
29	1110.5	65.5	667	14	US-10-216-165-80	Sequence 80, Appl
30	1110.5	65.5	667	14	US-10-218-956-80	Sequence 80, Appl
31	1110.5	65.5	667	14	US-10-219-468-80	Sequence 80, Appl
32	1110.5	65.5	667	14	US-10-219-478-80	Sequence 80, Appl
33	1110.5	65.5	667	14	US-10-219-536-80	Sequence 80, Appl
34	1110.5	65.5	667	14	US-10-233-205-80	Sequence 80, Appl
35	1110.5	65.5	667	14	US-10-219-072-80	Sequence 80, Appl
36	1110.5	65.5	667	14	US-10-219-470-80	Sequence 80, Appl
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38	1110.5	65.5	667	14	US-10-219-524-80	Sequence 80, Appl
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40	1110.5	65.5	667	14	US-10-227-880-80	Sequence 80, Appl
41	1110.5	65.5	667	14	US-10-227-881-80	Sequence 80, Appl
42	1110.5	65.5	667	14	US-10-227-882-80	Sequence 80, Appl
43	1110.5	65.5	667	14	US-10-230-436-80	Sequence 80, Appl
44	1110.5	65.5	667	14	US-10-232-223-80	Sequence 80, Appl
45	1110.5	65.5	667	14	US-10-232-225-80	Sequence 80, Appl

ALIGNMENTS

RESULT 1
US-09-816-653A-4
; Sequence 4, Application US/09816653A
; Publication No. US20030021788A1
; GENERAL INFORMATION:
; APPLICANT: Rastelli, Luca
; APPLICANT: Pennica, Diane
; TITLE OF INVENTION: NOVEL HUMAN STRA6-LIKE PROTEIN AND NUCLEIC ACIDS ENCODING THE SA:
; FILE REFERENCE: 10716/57
; CURRENT APPLICATION NUMBER: US/09/816,653A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/191,532
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Homo sapiens hSTRA6 polypeptide fragment, carboxy terminus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (146)..(148)
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (232)..(232)
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (290)..(290)
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (292)..(292)
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (302)..(302)
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; LOCATION: (303)..(303)
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown
US-09-816-653A-4

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Best Local Similarity 100.0%; Pred. No. 1e-148;
Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CYISALVLSCLLTFLVLMRSLVTHRLGSGGSGDQFQSWNLFSPVPLPPLAGLLVQQIIF 60
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Qy 61 FLGTTALAFVLMVPLHGRNLLFFRSLESSWPFWLTALAVILQNMAAHWVLETHDGH 120
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Db 61 FLGTTALAFVLMVPLHGRNLLFFRSLESSWPFWLTALAVILQNMAAHWVLETHDGH 120
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Qy 121 QLTNRRLVYAATFLFPLNLVVGAMXXXCSPSIAIRHPTPGYTYRNFLKIEVSQSH 180
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Db 121 QLTNRRLVYAATFLFPLNLVVGAMXXXCSPSIAIRHPTPGYTYRNFLKIEVSQSH 180
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Qy 181 TAFCSLLLAQSLPRTMAAPQDSLRFPEEGDEGMQLLQTKOSMAKGARPGAXRGRAR 240
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Db 181 TAFCSLLLAQSLPRTMAAPQDSLRFPEEGDEGMQLLQTKOSMAKGARPGAXRGRAR 240
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Qy 241 AYTLHNPTLQVFRKTAALLGANGAQCSSLPGSPPSITPAMQAGPPDHXGXVEVCL 300
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Qy 301 PXXGSAPPTLWESQGFWRKCLVG 325
    |||||
Db 301 PXXGSAPPTLWESQGFWRKCLVG 325
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RESULT 2
US-09-863-776-69
; Sequence 69, Application US/09863776
; Publication No. US20030198953A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Majumder, Kumud
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Mishra, Vishnu
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spaderna, Steven K
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Li, Li
; APPLICANT: Taupier, Raymond J
; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-020
; CURRENT APPLICATION NUMBER: US/09/863,776
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 09/540,763
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: 60/206,679
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/206,688
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/206,829
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: 60/207,748
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: 60/207,798
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: 60/208,263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 60/208,831
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/209,451
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: 60/210,060
; PRIOR FILING DATE: 2000-06-07
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; PRIOR APPLICATION NUMBER: 60/219,507
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: 60/221,337
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/221,927
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 60/263,135
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,688
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/263,694
; PRIOR FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 69
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-863-776-69

Query Match      65.5%; Score 1110.5; DB 10; Length 560;
Best Local Similarity 76.6%; Pred. No. 3.4e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGGSGSGD-----GQFSWNLF 42
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Db 258 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHPSRQAIFCWM 317
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Qy 43 VPLPLPPLAGLLVQQIIFLGTALAFVLMVPLHGRNLLFFRSLESSWPFWLTALAVI 102
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Db 318 AYQTAFICLGLLVQQIIFLGTALAFVLMVPLHGRNLLFFRSLESSWPFWLTALAVI 377
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Qy 103 LQNMAAHWVLETHDGHQPLTNRRVLVYAATFLFPLNLVVGAMXXXC----- 149
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Db 378 LQNMAAHWVLETHDGHQPLTNRRVLVYAATFLFPLNLVVGAMVATWRVLSALYNAIHL 437
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Qy 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLAQSLPRTMAAPQD 203
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Db 438 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLAQSLPRTMAAPQD 497
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Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKTAALLGANG 263
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Db 498 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKTAALLGANG 557
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Qy 264 AQP 266
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Db 558 AQP 560

RESULT 3
US-10-104-047-2306
; Sequence 2306, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2306
; LENGTH: 599
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-2306

Query Match      65.5%; Score 1110.5; DB 15; Length 599;
Best Local Similarity 76.6%; Pred. No. 3.7e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
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Qy 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
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Db 537 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 596
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Db 597 AQP 599

RESULT 4
US-09-759-056-2
; Sequence 2, Application US/09759056
; Patent No. US20020156252A1
; GENERAL INFORMATION:
; APPLICANT: Pennica, Diane
; APPLICANT: Smith, Victoria
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. US20020156252A1el STRA6 Polypeptides
; FILE REFERENCE: GENENT.2827A2
; CURRENT APPLICATION NUMBER: US/09/759,056
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/197089
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/175849
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/228914
; PRIOR FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-759-056-2

Query Match 65.5%; Score 1110.5; DB 9; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 424
Qy 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQIIFFLGTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 484
Qy 103 LQNMAAHWVFELETHDGHPLQTNRRVLYAATFLPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVFELETHDGHPLQTNRRVLYAATFLPLNVLVGAMVATWRVLLSALYNAIHL 544
Qy 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 537 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 596
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Db 597 AQP 599
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Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664
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Db 665 AQP 667

RESULT 5
US-09-901-812-2
; Sequence 2, Application US/09901812
; Patent No. US20020173461A1
; GENERAL INFORMATION:
; APPLICANT: Pennica, Diane
; APPLICANT: Polakis, Paul
; APPLICANT: Szeto, Wayne
; TITLE OF INVENTION: UPREGULATION OF TUMOR ANTIGENS TO
; TITLE OF INVENTION: ENHANCE EFFICACY OF IMMUNOTHERAPY
; FILE REFERENCE: GENENT.083A
; CURRENT APPLICATION NUMBER: US/09/901,812
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/228,914
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 09/759,056
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/175,849
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/197,089
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-901-812-2

Query Match 65.5%; Score 1110.5; DB 9; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 424
Qy 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQIIFFLGTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 484
Qy 103 LQNMAAHWVFELETHDGHPLQTNRRVLYAATFLPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVFELETHDGHPLQTNRRVLYAATFLPLNVLVGAMVATWRVLLSALYNAIHL 544
Qy 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664
Qy 264 AQP 266
Db 665 AQP 667

RESULT 6
US-09-863-776-32
; Sequence 32, Application US/09863776
; Publication No. US20030198953A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Majumder, Kumud
; APPLICANT: Tchernev, Velizar T
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APPLICANT: Mishra, Vishnu
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spaderna, Steven K
APPLICANT: Shenoy, Suresh G
APPLICANT: Rastelli, Luca
APPLICANT: Li, Li
APPLICANT: Taupier, Raymond J
APPLICANT: Gangolli, Esha
TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-020
CURRENT APPLICATION NUMBER: US/09/863,776
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 09/540,763
PRIOR FILING DATE: 2000-03-30
PRIOR APPLICATION NUMBER: 60/206,679
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/206,688
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/206,829
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/207,748
PRIOR FILING DATE: 2000-05-30
PRIOR APPLICATION NUMBER: 60/207,798
PRIOR FILING DATE: 2000-05-30
PRIOR APPLICATION NUMBER: 60/208,263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 60/208,831
PRIOR FILING DATE: 2000-06-02
PRIOR APPLICATION NUMBER: 60/209,451
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: 60/210,060
PRIOR FILING DATE: 2000-06-07
PRIOR APPLICATION NUMBER: 60/219,507
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: 60/221,337
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/221,927
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: 60/263,135
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/263,688
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: 60/263,694
PRIOR FILING DATE: 2001-01-24
NUMBER OF SEQ ID NOS: 155
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 32
LENGTH: 667
TYPE: PRT
ORGANISM: Homo sapiens
US-09-863-776-32

Query Match 65.5%; Score 1110.5; DB 10; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLF 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHRSQAIFCNW 424
QY 43 VPLPLPPLAGLVQIIFFLGTALAFVLMVHGRNLLFRSLESSWFFWLTALAVI 102
Db 425 AVQTAFICGLLVQIIFFLGTALAFVLMVHGRNLLFRSLESSWFFWLTALAVI 484
QY 103 LQNMAAHWFLETHDGHQPLTNRRVLYAATFLLFPLNLVVGAMXXXC----- 149
Db 485 LQNMAAHWFLETHDGHQPLTNRRVLYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKKTALLGANG 263

Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667
RESULT 7
US-09-863-776-67
Sequence 67, Application US/09863776
Publication No. US20030198953A1
GENERAL INFORMATION:
APPLICANT: Spytek, Kimberly A
APPLICANT: Majumder, Kumud
APPLICANT: Tchernev, Velizar T
APPLICANT: Mishra, Vishnu
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spaderna, Steven K
APPLICANT: Shenoy, Suresh G
APPLICANT: Rastelli, Luca
APPLICANT: Li, Li
APPLICANT: Taupier, Raymond J
APPLICANT: Gangolli, Esha
TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-020
CURRENT APPLICATION NUMBER: US/09/863,776
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 09/540,763
PRIOR FILING DATE: 2000-03-30
PRIOR APPLICATION NUMBER: 60/206,679
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/206,688
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/206,829
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 60/207,748
PRIOR FILING DATE: 2000-05-30
PRIOR APPLICATION NUMBER: 60/207,798
PRIOR FILING DATE: 2000-05-30
PRIOR APPLICATION NUMBER: 60/208,263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 60/208,831
PRIOR FILING DATE: 2000-06-02
PRIOR APPLICATION NUMBER: 60/209,451
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: 60/210,060
PRIOR FILING DATE: 2000-06-07
PRIOR APPLICATION NUMBER: 60/219,507
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: 60/221,337
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/221,927
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: 60/263,135
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/263,688
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: 60/263,694
PRIOR FILING DATE: 2001-01-24
NUMBER OF SEQ ID NOS: 155
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 67
LENGTH: 667
TYPE: PRT
ORGANISM: Homo sapiens
US-09-863-776-67

Query Match 65.5%; Score 1110.5; DB 10; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLF 42

Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHRGAALDLSPLHRSPHSRQAIFCWMFS 424
Qy 43 VPLPLPPLAGLLVQIIIFELGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICIGLLVQIIIFELGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
Qy 103 LQNMAAHWFLETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMXXXC----- 149
Db 485 LQNMAAHWFLETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 544
Qy 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPAMTAFCSLLLQAQSILLPRTMAAPOD 203
Db 545 GQMDLSLLPRAATLDPGYTYRNFLEKIEVSQSHPAMTAFCSLLLQAQSILLPRTMAAPOD 604
Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKKTALLGANG 664
Qy 264 AQP 266
Db 665 AQP 667

RESULT 8

US-10-227-884-80
; Sequence 80, Application US/10227884
; Publication No. US20030027988A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530PIC79
; CURRENT APPLICATION NUMBER: US/10/227,884
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
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;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/169495
;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/169835

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred.No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLF 42
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365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHRAALDLSPLHRSPHSRQAIFCWM 424
QY 43 VPLPLPPLAGLLVQIIFFLGTTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 102
Db |||||||||||||||||||||||
425 AYQAFICLGLLVQIIFFLGTTALAFVLMVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVLETHDGHQLTNRRVLYAATFLLFPLNVLVGAMXXXC----- 149
Db |||||||||||||||||||||||
485 LQNMAAHWVLETHDGHQLTNRRVLYAATFLLFPLNVLVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLEKIEVSQSHPMATFCSLLLOAQSLPRTMAAPQD 203
Db ::|||
545 GQMDLSLLPPRAATLDPGYTYRNFLEKIEVSQSHPMATFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGARWRGLAYTLLHNPTLQVFRKTALLGANG 263
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605 SLRPGEEDEGMQLLOTKDSMAKGARPGARWRGLAYTLLHNPTLQVFRKTALLGANG 664

QY 264 AQP 266
Db |||
665 AQP 667

RESULT 9
US-10-230-163-80
;; Sequence 80, Application US/10230163
;; Publication No. US20030036635A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Gerritsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Smith, Victoria
;; APPLICANT: Stephan, Jean-Philippe F.
;; APPLICANT: Watanabe, Colin L.
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3530P1C96
;; CURRENT APPLICATION NUMBER: US/10/230,163
;; CURRENT FILING DATE: 2002-08-28
;; PRIOR APPLICATION NUMBER: 10/119,480
;; PRIOR FILING DATE: 2002-04-09
;; PRIOR APPLICATION NUMBER: 60/059113
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; PRIOR APPLICATION NUMBER: 60/169835

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
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QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
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QY 103 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLFPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLFPLNVLVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTWAAPOD 203
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QY 264 AQP 266
Db 665 AQP 667

RESULT 10
US-10-230-338-80
; Sequence 80, Application US/10230338
; Publication No. US2003004934A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C92
; CURRENT APPLICATION NUMBER: US/10/230,338
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09

; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-230-338-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHPSRQAIFCWMFS 424
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLFPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVFLETHDGHQPQLTNRRLVYAATFLLFPLNVLVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTWAAPOD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLPRTWAAPOD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGARWGLAYTLLHNPTLQVFRKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667

RESULT 11
US-10-218-631-80
; Sequence 80, Application US/10218631
; Publication No. US20030045687A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3530P1C14
CURRENT APPLICATION NUMBER: US/10/218,631
CURRENT FILING DATE: 2002-08-12
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 246
SEQ ID NO 80
LENGTH: 667
TYPE: PRT
ORGANISM: Homo Sapien
US-10-218-631-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHPSRQAIFCWMIFS 424
QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQIIFFLGTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGPARGARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGPARGARWGLAYTLLHNPTLQVFRKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667

RESULT 12
US-10-230-414-80
Sequence 80, Application US/10230414
Publication No. US20030050448A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria

APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3530P1C98
CURRENT APPLICATION NUMBER: US/10/230,414
CURRENT FILING DATE: 2002-08-28
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 246
SEQ ID NO 80
LENGTH: 667
TYPE: PRT
ORGANISM: Homo Sapien
US-10-230-414-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHPSRQAIFCWMIFS 424
QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQIIFFLGTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMXXXC----- 149
Db 485 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLPPLNVLVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLQTKDSMAKGPARGARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGPARGARWGLAYTLLHNPTLQVFRKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667

RESULT 13
US-10-232-224-80
Sequence 80, Application US/10232224
Publication No. US20030065147A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary

```

; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530PIC111
; CURRENT APPLICATION NUMBER: US/10/232,224
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1997-09-17
; PRIOR FILING DATE: 1997-10-17
; PRIOR FILING DATE: 1997-10-28
; PRIOR FILING DATE: 1997-10-31
; PRIOR FILING DATE: 1997-12-17
; PRIOR FILING DATE: 1998-03-20
; PRIOR FILING DATE: 1998-03-25
; PRIOR FILING DATE: 1998-03-26
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-232-224-80
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Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHPSRQAIFCWMMSFS 424
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVFELETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMXXXC----- 149
Db 485 LQNMAAHWVFELETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAXRGRARWGGLAYTLHNPITLQVFRKTALIGANG 263
Db 605 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGRARWGGLAYTLHNPITLQVFRKTALIGANG 664
QY 264 AQP 266
Db 665 AQP 667
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RESULT 14
US-10-216-159A-80
; Sequence 80, Application US/10216159A
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; Publication No. US20030069397A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530PIC6
; CURRENT APPLICATION NUMBER: US/10/216,159A
; CURRENT FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1997-09-17
; PRIOR FILING DATE: 1997-10-17
; PRIOR FILING DATE: 1997-10-28
; PRIOR FILING DATE: 1997-10-31
; PRIOR FILING DATE: 1997-12-17
; PRIOR FILING DATE: 1998-03-20
; PRIOR FILING DATE: 1998-03-25
; PRIOR FILING DATE: 1998-03-26
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-216-159A-80
```

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Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGSGD-----GQFSWNLFS 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRNLRALHGAALDLSPLHRSPHPSRQAIFCWMMSFS 424
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICGLLVQOIIFFLGTTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVFELETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMXXXC----- 149
Db 485 LQNMAAHWVFELETHDGHQPOLTNRRLVYAATFLLFPLNLVVGAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAXRGRARWGGLAYTLHNPITLQVFRKTALIGANG 263
Db 605 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGRARWGGLAYTLHNPITLQVFRKTALIGANG 664
QY 264 AQP 266
Db 665 AQP 667
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RESULT 15
US-10-218-849-80
; Sequence 80, Application US/10218849
; Publication No. US20030073814A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C11
; CURRENT APPLICATION NUMBER: US/10/218,849
; CURRENT FILING DATE: 2002-08-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 80
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-218-849-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;
Best Local Similarity 76.6%; Pred. No. 4.2e-95;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLTFLVLMRSLVTHR-----LCSGGSGD-----GQFSWNLF 42
Db 365 CYISALVLSCLTFLVLMRSLVTHRNLRALHARGAALDLSPLHRSPHPSRQAIFCWMFS 424

QY 43 VPLPLPPLAGLLVQIIFFLGTTALAFVLMVHGRNLLFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQIIFFLGTTALAFVLMVHGRNLLFRSLESSWPFWLTALAVI 484

QY 103 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMXXXC----- 149
Db 485 LQNMAAHWVLETHDGHQPQLTNRRLVYAATFLLFPLNLVGMVATWRVLSALYNAIHL 544

QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLLQTKDSMAKGARPGAXRGRARWGLAYTLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLHNPTLQVFRKTALLGANG 664

QY 264 AQP 266
Db 665 AQP 667

Search completed: February 8, 2005, 13:45:13
Job time : 109.54 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 8, 2005, 13:29:35 ; Search time 31.6317 Seconds
(without alignments)
988.580 Million cell updates/sec

Title: US-09-816-653A-4
Perfect score: 1695
Sequence: 1 CYISALVLSCLLTFLVLMRS.....APPTWLWESQQGFWRKKLVG 325

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79:**
1: Pirl:**
2: Pirl:**
3: Pirl:**
4: Pirl:**

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	96.5	5.7	593	A71361	probable thiamin A
2	93	5.5	2016	A38195	sodium channel pro
3	91.5	5.4	581	T44942	cytochrome-c oxida
4	90.5	5.3	625	S18420	regulatory protein
5	89.5	5.3	107	C91079	probable cytochrom
6	89.5	5.3	107	D85924	probable cytochrom
7	89.5	5.3	268	S34364	hypothetical prote
8	89	5.3	3164	WMBEH6	UL36 protein - hum
9	88.5	5.2	107	A65056	hypothetical prote
10	88.5	5.2	395	AB1061	probable inner me
11	87	5.1	621	I49199	growth factor rece
12	86.5	5.1	301	G83556	hypothetical prote
13	86	5.1	528	AI0359	iron(III)-transpor
14	86	5.1	582	A87673	conserved hypothet
15	86	5.1	614	S40085	hypothetical prote
16	85.5	5.0	340	T18704	hypothetical prote
17	85.5	5.0	402	AB0854	probable membrane
18	84.5	5.0	166	T01263	hypothetical prote
19	84.5	5.0	230	T11290	cytochrome-c oxida
20	84.5	5.0	332	B81252	NADH2 dehydrogenas
21	84.5	5.0	377	F95948	probable acyltrans
22	84.5	5.0	636	T35182	probable ABC-type
23	84.5	5.0	1011	T07712	probable ABC-type
24	84	5.0	291	AG1846	sulfate transport
25	84	5.0	321	T11088	NADH2 dehydrogenas
26	84	5.0	477	D83617	probable amino aci
27	84	5.0	527	1 QRSEUB	sfuB protein - Ser
28	84	5.0	585	B75265	probable acid-CoA
29	83	4.9	222	1 S75137	hypothetical prote

30	83	4.9	297	2	AB2436	permease protein o
31	83	4.9	394	2	T31891	hypothetical prote
32	83	4.9	487	2	F72126	ct339 hypothetical
33	83	4.9	596	2	F75302	ATP-dependent DNA
34	83	4.9	1089	2	E82987	hypothetical prote
35	83	4.9	1840	1	CHRTM1	sodium channel pro
36	82.5	4.9	228	2	C38941	cytochrome-c oxida
37	82.5	4.9	393	2	B86644	transporter ybFD l
38	82.5	4.9	888	2	JC5399	dual leucine zippe
39	82.5	4.9	3005	2	T08841	polyprotein - dour
40	82	4.8	335	2	A87135	probable membrane
41	82	4.8	516	2	AB3088	MFS permease [prol
42	82	4.8	516	2	G98198	proline/betaine tr
43	82	4.8	627	2	A98344	hypothetical prote
44	82	4.8	627	2	AF2938	conserved hypothet
45	81.5	4.8	315	2	AG3535	dipeptide transpor

ALIGNMENTS

RESULT 1

A71361

probable thiamin ABC transporter, permease protein - syphilis spirochete
C:Species: Treponema pallidum subsp. pallidum (syphilis spirochete)

C:Date: 24-Jul-1998 #sequence_revision 24-Jul-1998 #text_change 09-Jul-2004

C:Accession: A71361

R:Fraser, C.M.; Norris, S.J.; Weinstock, G.M.; White, O.; Sutton, G.G.; Dodson, R.; Gwi

rson, J.; Khalak, H.; Richardson, D.; Howell, J.K.; Chidambaram, M.; Utterback, T.; MCD

they, L.; Weidman, J.; Smith, H.O.; Venter, J.C.

Science 281, 375-388, 1998

A:Title: Complete genome sequence of Treponema pallidum, the syphilis spirochete.

A:Reference number: A71250; MUID:98332770; PMID:9665876

A:Accession: A71361

A:Status: preliminary; nucleic acid sequence not shown; translation not shown

A:Molecule type: DNA

A:Residues: 1-593 <COL>

A:Cross-references: UNIPROT:O83179; GB:AE001199; GB:AE000520; NID:g3322402; PIDN:AAC651

A:Experimental source: strain Nichols

C:Genetics:

A:Gene: TP0143

Query Match

Query Match 5.7%; Score 96.5; DB 2; Length 593;

Best Local Similarity 23.0%; Pred. No. 1.7;

Matches 61; Conservative 29; Mismatches 86; Indels 89; Gaps 12;

QY	3	ISALVLSCLL----	TFLVLMRSLVTHRLGSGGSGDGFQFQFVPLPLPLAGLLVQOI	58	
Db	120	LCSAVLACAVGFGAAFFFKVRSRARALFPA-----	LCAIPLAIPPL-----	161	
QY	59	IFFLGTALAFVLMPVLHGRNLLFFRSLESSWPF-----	WLTLALA	100	
Db	162	-----TMALAFLLSF-----	GKNGCLCTRLLTGLWGVSTPRFLYSASGVVIAHAWYNFPLA	212	
QY	101	VILQNMAAHWVFELETHDGHPLQLTNR--	RVLYAATFLLFPLNVLVGAMXXX-----	CSP 151	
Db	213	LAIIRAWNTISADAEDARLLGARAYRVFYIT-----	LPALAGALRSSFLVIFLYCYFF	267	
QY	152	SIAT-----	RHPTPGVYTYRNFLKIEVSQSHP-----	AMTAFCSLLL-----	188
Db	268	SLMMVLLGGTFTTTLEVELYRS---	IRTOAHPYASTLALSQTFYALLMINGVSTEESQ	324	
QY	189	QAQSLLPRTMAAPQDSLPGEEDEG	213		
Db	325	QAQSCVARTPLPTQSIQGNIERIG	349		

RESULT 2

A38195

sodium channel protein hHI, cardiac - human

N;Alternate names: tetrodotoxin-insensitive, voltage-dependent sodium channel, TTX-I N;

C:Species: Homo sapiens (man)

C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004

AB1061
probable inner membrane protein STY4813 [imported] - Salmonella enterica subsp. enterica
C;Species: Salmonella enterica subsp. enterica serovar Typhi
A;Note: this species has also been called Salmonella typhi
C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002
C;Accession: AB1061
R;Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher,
th, T.; Connerton, P.; Cronin, A.; Davies, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,
S.; Moule, S.; O'Gaora, P.
Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.;
A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica serov
A;Reference number: AB0502; MUID:21534947; PMID:11677608
A;Accession: AB1061
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-395 <PAR>
A;Cross-references: GB:AL513382; PIDN:CAD06935.1; PID:g16505583; GSPDB:GN00176
C;Genetics:
A;Gene: STY4813

Query Match 5.2%; Score 88.5; DB 2; Length 395;
Best Local Similarity 26.2%; Pred. No. 5.2;
Matches 37; Conservative 20; Mismatches 45; Indels 39; Gaps 6;
QY 5 ALVLSCLLTFLVLMRSLVTHRLGSGSGDQGFNSVLPPLPLAGLLVQIIFFLGT 64
Db 73 ALFISVLLVFIIVLSLFIHGHFGLG-----FTLF-----GLLI-ALIPFMAV 116
QY 65 TALAFVLMPVLHGRLNLLFFRSLESWPFWLTALAVILQNMMAHVVFEETHDGHPLTN 124
Db 117 KGLQYQAMMTSLNGVHFGFCSMRRAW--WYMFALPVL--MVA----- 156
QY 125 RRVLYAATFLLFPLNLVVGAM 145
Db 157 ---LYIVLYIISLVTIAVGGL 174

RESULT 11
I49199
growth factor receptor binding protein Grb10 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C;Accession: I49199
R;Ooi, J.; Yajnik, V.; Immanuel, D.; Gordon, M.; Moskow, J.J.; Buchberg, A.M.; Margolis,
Oncogene 10, 1621-1630, 1995
A;Title: The cloning of Grb10 reveals a new family of SH2 domain proteins.
A;Reference number: I49199; MUID:95249278; PMID:7731717
A;Accession: I49199
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-621 <RES>
A;Cross-references: UNIPROT:Q60760; EMBL:U18996; NID:g841209; PIDN:AAB53687.1; PID:g8412
C;Genetics:
A;Gene: Grb10
C;Keywords: Growth factor receptor
P;520-614/Domain: SH2 homology <SH2B>

Query Match 5.1%; Score 87; DB 2; Length 621;
Best Local Similarity 21.7%; Pred. No. 12;
Matches 38; Conservative 28; Mismatches 59; Indels 50; Gaps 8;
QY 172 EVSQSHPMATFACSL-----LLQ-----AQSLPRTMAAPQDSLPGEEDEG 213
Db 4 DINSSVESLNSACNMQSDTDTPALLEDGHASNQAASSRGQPQASPRQKQRSQPVHI 63
QY 214 MQLLQTKDSMAKGARPGAXGRARWGLAYTLHNPTLVFRKTTALLGANGAQCSSLPGS 273
Db 64 LRRLOEEDQQLRTA-----SLPAIPNPFPE-----LTGA-----APGS 96
QY 274 PPSITPAM---QPAGPP-DHXGKVEVCLHWBPXXGSAP-PTWLWESQQGFWRKKL 323
Db 97 PFSVAPSSLPPPPSQPPAKHGCRCCEKIWPGENTRGNKRKIWRWQFPFGQLSKL 151

RESULT 12
G83556
hypothetical protein PA0702 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C;Accession: G83556
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; Br
adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,
.; Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic patho
A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: G83556
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-301 <STO>
A;Cross-references: UNIPROT:Q915M4; GB:AE004506; GB:AE004091; NID:g9946584; PIDN:AAG0409
A;Experimental source: strain PAO1
C;Genetics:
A;Gene: PA0702

Query Match 5.1%; Score 86.5; DB 2; Length 301;
Best Local Similarity 21.9%; Pred. No. 5.7;
Matches 61; Conservative 27; Mismatches 105; Indels 85; Gaps 10;
QY 58 IIFFLGTTALAFLV-----LMPVLHGR-----NLL----- 82
Db 36 VALFLGALGLSFLAERLPYQPRNRPHADRLRDVLHASVNESLNALGILALPLLAVLG 95
QY 83 FFRSLESSWPFWLTALAVILQNMMAHVVFEETHDGHPLTNRRRVLYAATFLLFPLNLV 142
Db 96 FWPVWPQAWPLWLQLLAIIVLADLGITLVHYASH-----RSALLWRLH--- 138
QY 143 GAMXXCSPSIAIRHPTPGYTYRNFLKIEVSQSHPMATFACSLLLQAQSLLPRTMAAPQ 202
Db 139 -----AVHHSVQRLYGFNGLMKHPHLHGLGALGCTLPLLLLG---VPQTVAALL 184
QY 203 DSLRPGEEDEGMQLLQTKDSMAKGARPGAXGRARWGLAYTLH-----NPTLQVF 253
Db 185 AFA-----IGIQLLLQHSNV--DMRIGGLRHVFAWAPLHRLHRIYGRAGDVNFALFFS 236
QY 254 RKTALLGANGAQCSSLPGSPPSITPAMQAPGPPDXG 291
Db 237 VMDRLGLTALHRPDYRLDSTDMGI--GDQPDYPRDYAG 272

RESULT 13
AI0359
iron(III)-transport system permease sfuB [imported] - Yersinia pestis (strain CO92)
C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C;Accession: AI0359
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B
deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell,
Nature 413, 523-527, 2001
A;Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AI0359
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-528 <KUR>
A;Cross-references: UNIPROT:Q8ZCM3; GB:AL590842; PIDN:CAC92204.1; PID:g15980916; GSPDB:
C;Genetics:
A;Gene: sfuB
C;Superfamily: sfuB protein

Query Match 5.1%; Score 86; DB 2; Length 528;
Best Local Similarity 22.3%; Pred. No. 12;
Matches 78; Conservative 31; Mismatches 129; Indels 112; Gaps 15;

Qy 6 LVLSCLLTFLVLMRSLVTHRLGSGGSGDQFQSWNLFVPLPLPPLAGLLVQOIIFLGT 65
Db 244 LALCCCLGULLVEATSRGYHYARVSGTGPR-----RQTVYSGT 283
Qy 66 ALAFLVLMVPLHGRNLLFFRSLESSWPF-----WLT-----LAL 99
Db 284 LTLCLLPL-----ITLSLGVPTILMRWLSIGGDIWLNPELLPALKQTLGLAL 336
Qy 100 --AVILQNMAAHVWVLETHDGHQPLTNRRVLYAATFLPLNVLVGMXXXCSPSIAIRH 157
Db 337 SGAVIITLCAIPMAWLSVR--YPCRURH-----AMEGCVYTSSLPGLVVALALVTITIRI 390
Qy 158 PTPGYTYRNFNLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQDSLPPGEDEGMQLL 217
Db 391 ARPLY-----QTEFTVLLAYLLMFTPRALI-----SLRAGIAQAPVELE 429
Qy 218 QTKDSMAKG-----ARPGAXRGRARWGLAYTLLHNPTLQVFRKLTALLGANGAQ 265
Db 430 NVARSIGRPTQAMLSLTLRLAAPGAAAGAA---LVFLAISNE---LTATLLAPNGTR 482
Qy 266 PCSSLPSPSITPAMQAGPPDHGXVVECLHWEPPXXGSAPTTWLWESQ 315
Db 483 TLAT--GFWALTSEIDYVAAP--YAFMLVAL-----SLPLTWLLYSQ 521

RESULT 14
A87673
conserved hypothetical protein CC3419 [imported] - Caulobacter crescentus
C;Species: Caulobacter crescentus
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004
C;Accession: A87673
R;Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon
n, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A;Title: Complete Genome Sequence of Caulobacter crescentus.
A;Reference number: A87249; MUID:21173698; PMID:11259647
A;Accession: A87673
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-582 <STO>
A;Cross-references: UNIPROT:Q9A2Y7; GB:AE005673; NID:g13425133; PIDN:AAK25381.1; GSPDB:G
C;Genetics:
A;Gene: CC3419

RESULT 15
S40085
hypothetical protein 4 - Lactococcus lactis
C;Species: Lactococcus lactis
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S40085
R;Eaton, T.J.; Shearman, C.; Gasson, M.
submitted to the EMBL Data Library, December 1993
A;Description: Cloning and sequence analysis of the DNAK gene region of Lactococcus lac
A;Reference number: S40082
A;Accession: S40085
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-614 <EAT>
A;Cross-references: UNIPROT:P42377; EMBL:X76642; NID:g435489; PIDN:CAAS4090.1; PID:g435

Query Match 5.1%; Score 86; DB 2; Length 614;
Best Local Similarity 19.9%; Pred. No. 14;
Matches 49; Conservative 35; Mismatches 74; Indels 88; Gaps 11;

Qy 5 ALVLSCLLTFLVLMRSLVTHRLGSGGSGDQFQSWNLFV-----PLPLPPLAGLLVQOI 58
Db 332 SLIFSCFSLVLMQLPI-----FPWKLFISIFTIVQDPPAFSTLFLGLF---- 374
Qy 59 IFFLGTALAFVLMVPLHGRNLLFFRSLESSWPFWLTALAVILQNMAAHVWVLETHDG 118
Db 375 -----SALSLLVLPIL-----LDKISGKTSYYLTIGLLVIFSIL-----G 410
Qy 119 HPQLTNR-----RVLYAA-----TFLLFPLNVLVGMXXXCSPSIAIRHPTPGY 163
Db 411 FAEFRNRIRIQSGQPLFASQAQSLLNKTPFNMYMENPDSIAIGEYL----PQVIGSHNQPYEK 466
Qy 164 TYRNFLEKIE--VSQSHPAMTAFCSLLLOAQSLPRTMAAPQDSLPPGEDEGMQLLQTKD 221
Db 467 TIQFYKDKNVYGMNRNQAMT-----YLSQRGKLPGLA-----KSIQISD 506
Qy 222 SMAKGA 227
Db 507 YSKKGS 512

Search completed: February 8, 2005, 13:41:06
Job time : 34.1317 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 8, 2005, 13:21:20 ; Search time 142.653 Seconds
(without alignments)
1166.650 Million cell updates/sec

Title: US-09-816-653A-4
Perfect score: 1695
Sequence: 1 CYISALVLSCLLTFLVLMRS.....APTWLWESQQGFWRKKLVG 325

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Uniprot_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1110.5	65.5	560	2 Q7L9G1	Q7L9g1 homo sapien
2	1110.5	65.5	667	2 Q8TB21	Q8tb21 homo sapien
3	1110.5	65.5	667	2 Q9BX79	Q9bx79 homo sapien
4	1110.5	65.5	708	2 Q7Z3U9	Q7z3u9 homo sapien
5	1106.5	65.3	658	2 Q9BX78	Q9bx78 homo sapien
6	1022.5	60.3	286	2 Q71RB9	Q71rb9 homo sapien
7	832.5	49.1	670	2 Q70491	Q70491 mus musculu
8	832.5	49.1	670	2 Q6DIA8	Q6dia8 mus musculu
9	133	7.8	322	2 Q69ZH3	Q69zh3 mus musculu
10	133	7.8	621	2 Q8C7I6	Q8c7i6 mus musculu
11	133	7.8	621	2 Q9DBN1	Q9dbn1 m mus muscu
12	115.5	6.8	618	2 Q8PBV8	Q8pbv8 xanthomonas
13	100.5	5.9	572	2 Q7NYU4	Q7nyu4 chromobacte
14	100	5.9	2170	2 Q7TNJ2	Q7tnj2 rattus norv
15	98.5	5.8	1841	2 Q9ER60	Q9er60 mus musculu
16	98	5.8	525	2 Q6D2F7	Q6d2f7 erwinia car
17	97.5	5.8	403	1 GC5B HUMAN	Q9nzh0 homo sapien
18	97.5	5.8	494	2 Q7MSH9	Q7msh9 wolinelia s
19	97	5.7	336	2 Q7NRX1	Q7nrx1 chromobacte
20	97	5.7	595	2 Q6ZRS5	Q6zrs5 homo sapien
21	96.5	5.7	593	2 Q83179	Q83179 treponema p
22	96.5	5.7	1514	2 Q82BH0	Q82bh0 streptomyce
23	96	5.7	913	2 Q6CKC6	Q6ckc6 kluyveromyc
24	95.5	5.6	275	2 Q888F0	Q888f0 pseudomonas
25	95.5	5.6	526	2 Q8NP08	Q8np08 corynebacte
26	95	5.6	273	2 Q7WAG2	Q7wag2 bordetella
27	95	5.6	273	2 Q7WJK9	Q7wj9 bordetella
28	94.5	5.6	378	2 Q71ES1	Q71es1 betta anaba
29	94.5	5.6	482	2 Q8M258	Q8m258 pfiesteria
30	94.5	5.6	540	2 Q69YS5	Q69ys5 homo sapien
31	94	5.5	465	2 Q72WP1	Q72wp1 desulfovibr

32	94	5.5	476	1	TRI6 HUMAN	Q15654 homo sapien
33	93.5	5.5	378	2	Q6VVU0	Q6vvu0 herichthys
34	93	5.5	279	2	Q8DM47	Q8dm47 synechococc
35	93	5.5	1962	2	Q75RX9	Q75rx9 homo sapien
36	93	5.5	2016	1	CIN5 HUMAN	Q14524 homo sapien
37	93	5.5	2016	2	Q75RY0	Q75ry0 homo sapien
38	92.5	5.5	378	2	Q71ES2	Q71es2 betta hippo
39	92	5.4	796	2	Q9P3B4	Q9p3b4 neurospora
40	92	5.4	2008	2	Q96S58	Q96s58 homo sapien
41	92	5.4	2146	2	Q8IZY2	Q8izy2 homo sapien
42	92	5.4	2146	2	Q9BZC4	Q9bzc4 homo sapien
43	92	5.4	2146	2	Q9NR73	Q9nr73 homo sapien
44	91.5	5.4	353	2	Q8M6Z9	Q8m6z9 pfiesteria
45	91.5	5.4	378	2	Q71ES3	Q71es3 betta pi. c

ALIGNMENTS

RESULT 1

Q7L9G1 ID Q7L9G1 PRELIMINARY; PRT; 560 AA.

AC Q7L9G1; 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ12541.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.

RX PubMed=14702039; DOI=10.1038/ng1285;
RA Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,
Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,
Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,
Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K.,
Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A.,
Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M.,
Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y.,
Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M.,
Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K.,
Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S.,
Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J.,
Kanehori K., Takahashi-Fujii A., Hara H., Tanase T., Nomura Y.,
Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N.,
Mugashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S.,
Yoshikawa Y., Matsunawa H., Ichihara T., Shihohata N., Sano S.,
Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O.,
Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H.,
Hishigaki H., Watanabe K., Kumagai A., Itakura S., Takemoto M., Kawakami B.,
Yamazaki M., Watanabe K., Kumagai A., Itakura S., Takemoto M., Kawakami B.,
Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T.,
Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Okamoto S.,
Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,
Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T.,
Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M.,
Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T.,
Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K.,
Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R.,
Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.;
RT "Complete sequencing and characterization of 21,243 full-length human
cDNAs.";
RL Nat. Genet. 36:40-45(2004).
DR EMBL; AK022603; BAB14122.1; --
SQ SEQUENCE 560 AA; 61987 MW; DF0FFED7687AED74 CRC64;

Query Match 65.5%; Score 1110.5; DB 2; Length 560;
Best Local Similarity 76.6%; Pred. No. 2.3e-81;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGGSD-----GQFSWNLFS 42


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Db 258 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHGAALDLSPLHRSPHPSRQAIFCWMSPS 317
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMFVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 318 AYQTAFICLGLLVQOIIFFLGTTALAFVLMFVHGRNLLFFRSLESSWPFWLTALAVI 377
QY 103 LQNMAAHVVFLETHDGHQPOLTNRRLVYAATFLFPLNVLVGMAMXXXC----- 149
Db 378 LQNMAAHVVFLETHDGHQPOLTNRRLVYAATFLFPLNVLVGMAMVATWRVLLSALYNAIHL 437
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 438 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 497
QY 204 SLRPGEEDEGMQLLOTKDSMAKGPAGXRGARWGLAYTLLHNPTLOVFRKTALLGANG 263
Db 498 SLRPGEEDEGMQLLOTKDSMAKGPAGXRGARWGLAYTLLHNPTLOVFRKTALLGANG 557
QY 264 AQP 266
Db 558 AQP 560
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RESULT 2

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Q8TB21 ID Q8TB21 PRELIMINARY; PRT; 667 AA.
AC Q8TB21;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Stimulated by retinoic acid gene 6.
GN Name=FLJ12541;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klauener R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025256; AAH25256.1; -.
SQ SEQUENCE 667 AA; 73532 MW; 120685F4635CB0E5 CRC64;
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Query Match 65.5%; Score 1110.5; DB 2; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.8e-81;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

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QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42
Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHGAALDLSPLHRSPHPSRQAIFCWMSPS 424
QY 43 VPLPLPPLAGLLVQOIIFFLGTTALAFVLMFVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICLGLLVQOIIFFLGTTALAFVLMFVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHVVFLETHDGHQPOLTNRRLVYAATFLFPLNVLVGMAMXXXC----- 149
Db 485 LQNMAAHVVFLETHDGHQPOLTNRRLVYAATFLFPLNVLVGMAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLOTKDSMAKGPAGXRGARWGLAYTLLHNPTLOVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLOTKDSMAKGPAGXRGARWGLAYTLLHNPTLOVFRKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667
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RESULT 3

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Q9BX79 ID Q9BX79 PRELIMINARY; PRT; 667 AA.
AC Q9BX79; Q9H9U8;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE STRA6 isoform 1.
GN ORFNames=UNQ3126;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Szeto W., Jiang W., Tice D.A., Rubinfeld B., Hollingshead P.G.,
RA Fong S.E., Dugger D.L., Pham T., Yansura D.G., Wong T.A.,
RA Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B.,
RA Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P.,
RA Pennica D.;
RT "Overexpression of the retinoic acid-responsive gene Stra6 in human
RT cancers and its synergistic induction by Wnt-1 and retinoic acid."
RL Cancer Res. 0:0-0(2001).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Baton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AF352728; AAK30289.1; -.
DR EMBL; AY359089; AAQ89447.1; -.
SQ SEQUENCE 667 AA; 73502 MW; D20840A46998BA2E CRC64;
```

Query Match 65.5%; Score 1110.5; DB 2; Length 667;
Best Local Similarity 76.6%; Pred. No. 2.8e-81;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42

Db 365 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHSRQAIFCWMFS 424
QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 425 AYQTAFICGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 484
QY 103 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGMAMXXXC----- 149
Db 485 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGMAMVATWRVLLSALYNAIHL 544
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 545 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 604
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 605 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664
QY 264 AQP 266
Db 665 AQP 667

RESULT 4
Q7Z3U9 PRELIMINARY; PRT; 708 AA.
AC Q7Z3U9;
DT 01-OCT-2003 (TReMBLrel. 25, Created)
DT 01-OCT-2003 (TReMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)
DE Hypothetical protein DKFZp686p1959 (Fragment).
GN Name=DKFZp686p1959;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Human endometrium;
RA Poustka A., Albert R., Moosmayer P., Schupp I., Wellenreuther R.,
RA Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M., Wiemann S.;
RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BX37413; CAD97655.1; -
KW Hypothetical protein.
FT NON_TER 1
SQ SEQUENCE 708 AA; 77825 MW; DB88B84EAD286ED CRC64;

Query Match 65.5%; Score 1110.5; DB 2; Length 708;
Best Local Similarity 76.6%; Pred. No. 3e-81;
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42
Db 406 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHQSPHSRQAIFCWMFS 465
QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 466 AYQTAFICGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 525
QY 103 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGMAMXXXC----- 149
Db 526 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGMAMVATWRVLLSALYNAIHL 585
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 586 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 645
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 646 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 705
QY 264 AQP 266

Db 706 AQP 708
RESULT 5
Q9BX78 PRELIMINARY; PRT; 658 AA.
ID Q9BX78
AC Q9BX78;
DT 01-JUN-2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, Last sequence update)
DT 05-JUL-2004 (TReMBLrel. 27, Last annotation update)
DE STRA6 isoform 2.
GN ORFNames=UNQ3126;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Szeto W., Jiang W., Tice D.A., Rubinfeld B., Hollingshead P.G.,
RA Fong S.E., Dugger D.L., Pham T., Yansura D.G., Wong T.A.,
RA Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B.,
RA Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P.,
RA Pennica D.;
RT "Overexpression of the retinoic acid-responsive gene Stra6 in human
RT cancers and its synergistic induction by Wnt-1 and retinoic acid.";
RL Cancer Res. 0:0-0(2001).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.";
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AF352729; AAK30290.1; -
DR EMBL; AY358748; AAK89108.1; -
SQ SEQUENCE 658 AA; 72582 MW; 5405281727F647DD CRC64;

Query Match 65.3%; Score 1106.5; DB 2; Length 658;
Best Local Similarity 76.2%; Pred. No. 5.7e-81;
Matches 231; Conservative 5; Mismatches 30; Indels 37; Gaps 4;
QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42
Db 356 CYISALVLSCLLTFLVLMRSLVTHRTNLRALHARGAALDLSPLHRSPHSRQAIFCWMFS 415
QY 43 VPLPLPPLAGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 102
Db 416 AYQTAFICGLLVQIIFFLGTALAFVLMPLVHGRNLLFFRSLESSWPFWLTALAVI 475
QY 103 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGMAMXXXC----- 149
Db 476 LQNMAAHWVFELETHDGHQPQLTNRRLVYAATFLLFPLNVLVGAIVATWRVLLSALYNAIHL 535
QY 150 -SPSIAIRHP-----TPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 203
Db 536 GQMDLSLLPPRAATLDPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMAAPQD 595
QY 204 SLRPGEEDEGMQLLOTKDSMAKGARPGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
Db 596 SLRPGEEDEGMQLLOTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 655
QY 264 AQP 266

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Db 656 AQP 658
RESULT 6
Q71RB9
ID Q71RB9 PRELIMINARY; PRT; 286 AA.
AC Q71RB9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein PP14296.
GN Name=PP14296;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Wan D.F., Qin W.X., Zhou X.M., Zhang P.P., Jiang H.O., Zu J.R.;
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF370419; AAQ15255.1; -.
KW Hypothetical protein.
SQ SEQUENCE 286 AA; 31877 MW; 24E6A620844A5EFB CRC64;

Query Match 60.3%; Score 1022.5; DB 2; Length 286;
Best Local Similarity 74.8%; Pred. No. 1.4e-74;
Matches 214; Conservative 5; Mismatches 30; Indels 37; Gaps 4;

QY 18 MRSLVTHR-----LGSGGSGD-----GQFSWNLFSPVLPPLAGLLVQQII 59
Db 1 MRSLVTHRTNLRALHRAALDLSPLHRSPHPSRQAIFCWMFSFAYQTAFCICLGLVQQII 60
QY 60 FFLGTTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVILQNMMAHWWFLETHDGH 119
Db 61 FFLGTTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVILQNMMAHWWFLETHDGH 120
QY 120 POLTNRRLVYAATFLLPPLNVLGAMXXXC-----SPSIAIRHP-----TP 160
Db 121 POLTNRRLVYAATFLLPPLNVLGAVATWRVLLSALYNAIHLGQMDLSLLPPRAATLDP 180
QY 161 GYTYRNFLKIEVSQSHPAMTAFCSLLQAOQLLPTMAAPQDSLRPGEDEGMQLLQTK 220
Db 181 GYTYRNFLKIEVSQSHPAMTAFCSLLQAOQLLPTMAAPQDSLRPGEDEGMQLLQTK 240
QY 221 DSMAGARPAGXRGRRARWGLAYTLHNPQLQVRKTKALLGANGAQP 266
Db 241 DSMAGARPAGSRRARWGLAYTLHNPQLQVRKTKALLGANGAQP 286

RESULT 7
Q70491
ID Q70491 PRELIMINARY; PRT; 670 AA.
AC Q70491;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-NOV-1999 (TrEMBLrel. 12, Last annotation update)
DE Retinoic acid-responsive protein.
GN Name=Strat6;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Bouillet P., Oulad-Abdelghani M., Vicaire S., Garnier J.M.,
RX MEDLINE=95377533; PubMed=7649373; DOI=10.1006/dbio.1995.1226;
RA Schuhaur B., Dolle P., Chambon P.;
RT "Efficient cloning of cDNAs of retinoic acid-responsive genes in P19
RT embryonal carcinoma cells and characterization of a novel mouse gene,
RT Strat (mouse LERK-2/Eplg2).";
RL Dev. Biol. 170:420-433(1995).
RN [2]
RP SEQUENCE FROM N.A.

RX MEDLINE=97346723; PubMed=9203140; DOI=10.1016/S0925-4773(97)00039-7;
RA Bouillet P., Sapin V., Chazaud C., Messaddeg N., Decimo D., Dolle P.,
RA Chambon P.;
RT "Developmental expression pattern of Strat6, a retinoic acid-responsive
RT gene encoding a new type of membrane protein.";
RL Mech. Dev. 63:173-186(1997).
RN [3]
RP SEQUENCE FROM N.A.
RA Bouillet P.;
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF062476; AAC16016.1; -.
DR MGI; MGI:107742; Strat6.
DR GO; GO:0016021; C:integral to membrane; TAS.
SQ SEQUENCE 670 AA; 73774 MW; 6ACE69F3EE16A4F7 CRC64;

Query Match 49.1%; Score 832.5; DB 2; Length 670;
Best Local Similarity 57.7%; Pred. No. 8.1e-59;
Matches 176; Conservative 28; Mismatches 62; Indels 39; Gaps 4;

QY 1 CYISALVLSCLLTFLVLMRSLVTHR-----LGSGGSGD-----GQFSWNLF 42
Db 366 CYISALVLSCASTFLLLRSLRTHRANLQALHRAALDLPPLQSIHPSRQAIVSMSPFC 425
QY 43 VPLPLPLAGLLVQIIFFLGTALAFVLMVPLHGRNLLFRSLESSWPFWLTALAVI 102
Db 426 AYQTAFSCGLLVQVIFFLGTTSLAFVFLVPLHGRNLLLRSLSTWPFWLTALAVI 485
QY 103 LQNMAAHWWFLETHDGHFQLTNRRLVYAATFLLPPLNVLGAMXXXCSPSIAIRHPT--- 159
Db 486 LQNIANWIFLRTHGYPELTNRRLCVATFLLPPLNVLGAIMAVVRVLISSLYNTVHL 545
QY 160 -----PGYTYRNFLKIEVSQSHPAMTAFCSLLQAOQLLPTMAAPQD 203
Db 546 GQMDLSLLPQRAASLDPGYTYQNFLRIEASQSHPGVIAFCALLHAPSPQPRPLAPQD 605
QY 204 SLRPGEDEGMQLLQTKDSMAKARPAGXRGRRARWGLAYTLHNPQLQVRKTKALLG--A 261
Db 606 SLRPAEEEGMQLLQTKDLMAKAGHKGQSQRARWGLAYTLHNPQLQAFRKAALTSKA 665
QY 262 NGAQP 266
Db 666 NGTQP 670

RESULT 8
Q6DIA8
ID Q6DIA8 PRELIMINARY; PRT; 670 AA.
AC Q6DIA8;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Strat6 protein.
GN Name=Strat6;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Eye;
RX MEDLINE=22398257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
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RA Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaki S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Liver;
RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,
RA Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,
RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
RA Kato H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
RA Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
RA Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK050152; BAC34096.1; --
DR MGD; MGI:1921402; 1300002K09Rik.
KW Hypothetical protein.
SQ SEQUENCE 621 AA; 70903 MW; 7FAAC08C5CD00BBA CRC64;

Query Match 7.8%; Score 133; DB 2; Length 621;
Best Local Similarity 23.1%; Pred.No. 0.025;
Matches 55; Conservative 37; Mismatches 92; Indels 54; Gaps 7;

Qy 50 LAGLLVQIIFLGTALAFVLVMPVLHGRNLLFFRSLESSWPFWLTALAV----ILQNM 106
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 388 LWGYLIHVQSLCGVLMYGLVLPPIHHRGL---EMLQGFLGVLTLSIVVGLILQVW 444
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

Qy 107 AAHWVFLETHDGHQPQ-----LTNRVLYAATFLPPLNVLVGMXXXCSPSIAI----- 155
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 445 IAGTFPLQPKLGTSDKQKPLALNNRRAPHNFNYLFYFNVLG--LGACLSRLLSCLLG 502
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

Qy 156 -----RHPTPGYTYRNFLKIEVSQSHPAMTAFCSLLLOAQSLPRTMA 199
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 503 TWLIARIDRTIMQSGYEGADMFGAWIGMLFVDHYHTNPVLVSFCHILITS----- 553
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

Qy 200 APQDSLRPGEEDEGMQLLTQKDSMAKGARPG-AXRGRARWGLAYLLHNPTLQVPRKT 256
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 554 -----HKDRKLQTKTVKYWCUNQSQAGPRFSARARTRWELLQTLINPRLVLMRKS 602
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

RESULT 11
Q9DBN1 PRELIMINARY; PRT; 621 AA.
AC Q9DBN1;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mus musculus adult male liver cdNA, RIKEN full-length enriched
DE library, clone:1300002K09 product:hypothetical protein, full insert
DE sequence (Mus musculus adult male liver tumor cdNA, RIKEN full-length
DE enriched library, clone:C730040D15 product:hypothetical protein, full
DE insert sequence).
GN Name=1300002K09Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Liver;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cdNA cloning.";

RL Meth. Enzymol. 303:19-44 (1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Liver;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/350555500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cdNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Liver;
RA The FANTOM Consortium,
RT the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Liver;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
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DR EMBL; AK004855; BAB23619.1; --
DR EMBL; AK050348; BAC34204.1; --
DR MGD; MGI:1921402; 1300002K09Rik.
KW Hypothetical protein.

Qy	35	QPSWNLFVPLPPLAGLLVQOIIFFLGTTALAFVLMPVLHGRNLLFFRSLESSWPFW	94
Dd	633	QCGWNIFD-----SFIVTSLVELG---LANVQGLSVLRSFRLLRVFKLSWP-T	679
Qy	95	LTLALAVILQNMAAHWFLETHDGHQPQLTNRRVLAAATFLLFPL--NVLVGAMXXXCSPS	152
Dd	680	LNMLIKIIGNSVGA-----LGNLTLVLAIIVFIFAVVGMLFGKSYKECVCK	726
Qy	153	IATRHPTPGYT---YRNFLKI-----EVSQSHPAMTAFCSLLLOAQ--	191
Dd	727	IASDCSLPRWHMHDFHSFLIVFRILCGEWIETMNDCEVAGQMCLTVFLVMVIGNLV	786
Qy	192	-----SLLPRTMAAPQDSLPRGEDEGMQLLOTKD SMAKGARPGAXRGRARWLAYT--	243
Dd	787	VNLNFLALLSSFSA--DSLAASDEDEGMNNLQ-----IAIGRIKWGIAFAKT	832
Qy	244	-----LLHNPTLQVRKNTALL-----GANGAQCSSLPGSPPSITPAMQPPGDHXG	291
Dd	833	FLGLLHGKILSL--KDIMLSLGPCCGAGENGESP-----PEDEKKEPPEDG	878
Qy	292	XVEV 295	
Dd	879	NKEL 882	

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